



J. K. Press

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| Journal Name: | Asian Journal of Current Research |
| Manuscript Number: | Ms_AJOCR_11861 |
| Title of the Manuscript: | Studies on Efficiencies of Heavy Metal Hyper-Accumulation Plants as Potential Land Remediators for Heavy Metal Polluted Soils |
| Type of the Article | Original Research Article |



1: Review Comments

| | Reviewer's comment | Author's feedback |
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| <p><u>Compulsory</u> REVISION comments</p> <p>1. Is the manuscript important for the scientific community? (Please write a 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 suggestions for additional references, please mention them in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>Yes. The research topic holds great significance as it delves into the quest for solutions to a pressing challenge confronting the contemporary world.</p> <p>Yes</p> <p>Yes</p> <p>It need improvement</p> <p>Yes</p> <p>No, 60% of the citations in the manuscript are over a decade old. 11. It need to be updated</p> | |
| <p><u>Minor</u> REVISION comments</p> <p>1. Is the language/English quality of the article suitable for scholarly communications?</p> | <p>yes</p> | |



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| <p><u>Optional</u> comments</p> | <p>My major observations are as follows:</p> <p>INTRODUCTION</p> <ol style="list-style-type: none">1. I recommend enhancing the introduction by integrating insights from prior research undertaken by scholars who have delved into similar themes. <p>MATERIAL AND METHODS</p> <ol style="list-style-type: none">2. Line 55: I suggest replacing the title '3. Experimental Procedures' with "3. Materials and Methods"3. Line 56: I recommend eliminating the 'Reagents and Materials' section. It would be more suitable to specify the reagents and materials used as they are referenced in the analysis section and only mention the plant species employed4. 3.3 Impregnation of soil samples with heavy metals <p>Line 79 to 81: "a filter paper the paper and the chemical measured": This sentence includes unnecessary and very obvious details for a beginner researcher. I advise refraining from including these self-evident details that can make the research cumbersome. Concentrating on the key aspects would be more beneficial.</p> <ol style="list-style-type: none">5. 3.5 Preparations of soil samples for analysis <p>Line 103 and line 111: You indicated the use</p> | |
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of the coning and quartering method for sampling, yet there seems to be a discrepancy as you cited two different references, 16 and 17, for the same method.

- Please, double-check.

6. Digestion of soil samples for AAS analysis:

Line 113: When introducing the method for the first time, please provide its complete name followed by the abbreviation in the text.

7. Rather than providing a comprehensive description of the analysis method,

I recommend referencing the method's standard and its source, while concentrating on outlining its fundamental principles and key steps

Results and discussion

8. **Page 5:** In the graphs (Fig1, fig 2, fig 3) depicting the concentrations of heavy metals,

I suggest that, redundant titles can be omitted, as the figure title clearly indicates the nature of the results.

9. I recommend subjecting the results to a statistical analysis to compare the abilities of plants to accumulate different types of heavy metals studied. Conducting statistical analysis will allow for the identification of significant and non-significant differences.



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| | <p>10. While the current study is descriptive in nature, the discussion of the results should be comprehensive, in-depth, and supported by multiple references from contemporary research.</p> <p>I advisable to support the findings with similar results obtained from either the same plants or other plants used for heavy metal accumulation.</p> <p>11. You need to update your list of references as 60% of the citations in the manuscript are over a decade old.</p> | |
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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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| Name: | Wassila Sahi |
| Department, University & Country | Blida 1 University, Algeria |