

Review Form 1.7

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| Journal Name: | Chemical Science International Journal |
| Manuscript Number: | Ms_CSIJ_102638 |
| Title of the Manuscript: | REMOVAL OF COPPER AND CADMIUM FROM WASTEWATER USING CHEMICALLY ACTIVATED WATERMELON PEELS |
| Type of the Article | |

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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><u>Compulsory</u> 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 thereview form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>1. The current manuscript presents an interesting research findings of activated watermelon peel as adsorbent for removing of copper and cadmium in wastewaters. In general, the paper is quite interesting and it appears to have some novelty for publication.</p> <p>2.</p> <ul style="list-style-type: none"> • Tittle needs to be amended to specific. For instance, "Removal of copper and cadmium from wastewaters using chemically activated watermelon peels as adsorbent". <p>3. The abstract is adequate. However, please take note:</p> <ul style="list-style-type: none"> • <i>water melon or watermelon.</i> • <i>bulk density(0.36) or bulk density (0.32).</i> • <i>Cadmium or cadmium.</i> • <i>Copper or copper.</i> <p>4.Subsections and the structure are adequate. However, please add acknowledgementssection in the manuscript.</p> <p>5. The study has good research merit. However, after careful deliberation, I feel that this work could only be possibly recommended for publication after major revisionimprovement.</p> <p>6.</p> <ul style="list-style-type: none"> • As can be seen in the manuscript, most of the references are more than five years old (6 out of 15 references are less than 5 years). Please update and include recent publication in your introduction. • The authors should recheck all the references to ensure that the journal names are all properly written (Every starting letter in the journal's name should be capitalized for consistency), etc. Kindly amend accordingly. • Please follow the exact journal style of references and correct the style of the references. | |

Additional comments:

1. Introduction:

- The introduction can be improved by consulting other references concerning the use of different sources and types of adsorbents in the wastewater treatment. Please add the references. Next, perhaps the author can state why he/she thinks that watermelon peels would be a potential and successful adsorbent. Then, state the novelty of this work clearly at the end of introduction.

2. Materials and Methods:

The methodology used is suitable to achieve the proposed objectives. However, a few amendments need to take into action:

- Please check the spelling "**Materials and.....**"
- **Water melon or watermelon**
- delete **conc** (1 M conc..)

2.1 Adsorbate Preparation. Please do the amendment:

- Copper nitrate Cu (NO₃)₂
- (Cu(NO₃)₂
- respectively(Ikpe *et al.*,2017)
- How do you decide the range concentration of Cu and Cd?
- Please re-check the grammar and syntax error.

3.0. Results and Discussion

Table 1

- Please rename the table to suitable title. Do proper way of tabulating the experimental data.
- Please re-check the grammar and syntax error.

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| | <p>3.2.1& 3.2.2</p> <ul style="list-style-type: none"> • Amend mg/l to mg/L. • Please use proper tools to plot the graph (Figure 1-Figure 7). • Figure 1: Plot of % removal efficiency against concentration or Figure 1: is a graphical representation of initial metal ion concentration against removal efficiency. Which one? • Please re-check the grammar and syntax error. <p>3.3:</p> <ul style="list-style-type: none"> • The adsorption isotherm appears to be not discussed in detail. It is highly suggested that the authors to add a more detailed discussion. | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>There are quite a number of English errors in the manuscript, both grammatical and syntactical. It is highly suggested that the authors to engage in the help of colleagues who are good in English or native English speakers to proofread the entire manuscript.</p> | |
| <p>Optional/General comments</p> | <p>There are quite a number of formatting errors in the manuscript. Kindly recheck throughout the whole manuscript and amend accordingly.</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> | |

Reviewer Details:

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|---|--|
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