

## Review Form 1.7

Journal Name:	<b>Journal of Scientific Research and Reports</b>
Manuscript Number:	<b>Ms_JSRR_119372</b>
Title of the Manuscript:	<b>Design and Optimization of Copper Adsorption with Modified Rice Straw Using Response Surface Methodology</b>
Type of the 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.journaljsrr.com/index.php/JSRR/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><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> <li>1. The manuscript is significant for the scientific community, particularly for researchers working in environmental science, water treatment, and green chemistry. It addresses the pressing issue of heavy metal contamination in water, proposing a low-cost and environmentally friendly solution using modified rice straw for copper adsorption. The use of Response Surface Methodology (RSM) to optimize operational parameters enhances the practical applicability of the study, providing a robust model for maximizing adsorption efficiency. Such research can aid in the development of sustainable water treatment technologies.</li> <li>2. The title "Design and Optimization of Copper Adsorption with Modified Rice Straw Using Response Surface Methodology" is suitable as it accurately reflects the main focus and methods used in the study. However, a slightly more concise alternative could be: "Optimizing Copper Adsorption with Modified Rice Straw Using Response Surface Methodology."</li> <li>3. The abstract is comprehensive, summarizing the background, methodology, key results, and conclusions effectively.</li> <li>4. The subsections and structure of the manuscript appear to be appropriate. It includes essential sections such as Abstract, Introduction, Materials and Methods, Results and Discussion, and Conclusion, which are standard and necessary for scientific reporting.</li> <li>5. Based on the provided sections, the manuscript seems scientifically correct. The use of RSM for optimization, the detailed methodology for biosorbent preparation, and the validation of results with high R-squared values and ANOVA support the scientific rigor of the study.</li> <li>6. Yes</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>The language and English quality of the article are suitable for scholarly communication.</p>	
<p><b>Optional/General</b> comments</p>	<p>It would be beneficial to include a graphical abstract to visually summarize the study's key findings.</p> <p>Providing a cost analysis of using modified rice straw as an adsorbent compared to conventional methods could enhance the practical relevance of the study.</p> <p>Future work could explore the adsorption performance for other heavy metals and real wastewater samples to demonstrate broader applicability.</p>	

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**PART 2:**

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

**Reviewer Details:**

Name:	<b>Hamed Aghazadeh</b>
Department, University & Country	<b>University of Tehran, Iran</b>