

Review Form 3

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_126375
Title of the Manuscript:	Response surface methodology: An insight into Optimization of adsorption studies
Type of the Article	Review Article

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The research is valuable and highlights the significance of response surface methodology (RSM) as an effective optimization tool for addressing various water contaminants.	Noted
Is the title of the article suitable? (If not please suggest an alternative title)	The title is appropriate, but it could be improved to better convey its review nature. My suggestion is "Response surface methodology: A Review in Optimization of adsorption studies"	Noted and adjusted
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is comprehensive and carries the core essence of the research	Noted
Are subsections and structure of the manuscript appropriate?	MAIN MODELS IN RESPONSE SURFACE METHODOLOGY In this section the acronym DOE was used for the first time in the article without providing its full meaning (Design of Experiment)	Noted and updated
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The author has referenced significant research studies that emphasize his/her research objective of demonstrating the effectiveness of RSM as a valuable optimization tool in waste water treatment and beyond.	Noted
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	<p>It would be better to reference the following manuscripts in the introduction section to underscore the importance of Optimization tools for ease in synthesis of biodiesel Adepoju, T., Etim, V., Uzono, R., Balogun, T., & Emberru, E. (2022). An application of non-edible oils, bio-base catalyst, and process optimization as an economical route for a hybridized oil biodiesel synthesis. <i>Case Studies in Chemical and Environmental Engineering</i>, 6, 100231. https://doi.org/10.1016/j.cscee.2022.100231</p> <p>Also the articles reviewed on the application of RSM on dyes are not sufficient. The author should consider reviewing the following articles</p> <p>Folorunsho, A. T., Isotuk, U. R., & Job, A. I. (2016). Modelling and Optimization of the Removal of Congo-Red Dye from Waste Water Using Agricultural Waste. <i>Journal of Chemical Environmental and Biological Engineering</i>, 1(1), 1. https://doi.org/10.11648/j.jcebe.20170101.11</p> <p>Folorunsho, A. T., Job, A. I., & Isotuk, U. R. (2016). Optimization of Biohydrogen Production (BHP) from Agro Waste Water (Cassava Waste Water): A Case of Box-Behnken Response Surface Methodology (RSM). <i>International Journal of Energy and Environmental Science</i>, 1(1), 13. https://doi.org/10.11648/j.jjees.20160101.13</p>	Noted and these will be incorporated in future reviews.

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes the language is suitable	Noted
Optional/General comments	The research is an expository study that highlights the importance of statistical tools in optimization. However, I believe the review should address the limitations of using RSM. If these points are incorporated, the research would be well-suited for publication	Noted and addressed

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?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	No ethical issues