

Review Form 1.7

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_103921
Title of the Manuscript:	Efficient Adsorption Kinetic Studies of Chromium from effluents using Ziziphus Mauritiana Leaf extract mediated TiO ₂ Nanoparticles
Type of the Article	Original Research 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:

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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. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes, but it could be revised and improved as stated.</p> <p>Yes</p> <p>Yes, but it could be revised and improved.</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>The manuscript is about the extraction and detection of Chromium by TiO₂ NPs within aqueous media. It is an interesting topic related with applied nanotechnology. However please consider the following comments and suggestions: i) In the Abstract, it should be added more explanations about the mechanism of adsorption and detection highlighting the role of the Nanoplatfoms. ii) In the Introduction is not mentioned the TiO₂. It is suggested to add some explanation about their role and may be some detail about the non-covalent interaction involucred. For example, in the proposed synthesis of the TiO₂ is involucred some stabilizing agent that afford to an improved selectivity? It is just an open mind idea that could explain specificity, selectivity, etc. iii) In Material and Methods; in the synthesis of TiO₂ NPs if it was used some reference from literature to develop the synthesis; it should be mentioned. In the same way, if the synthesis is completely new. iv) In the section of Results, please consider to check the format of Graphs and captions. v) Please check the English writing. Commentary in general. vi) In Figure 4, it is not possible see properly the scale length. vii) It is missing description and discussion of Adsorption experiments. Please check the section and describe how it was studied the phenomenon of interaction and loading of Chromium on Nanoplatfoms. Add more details for the neophyte in this theme that intends to understand the Research work. Vii) Please check the organization of the Results and how it is presented each step. For example, in the section where it is presented the model to fit the experimental data. Consider to present first results and then discuss about what is the model that fit better. viii) Conclusions are missing. It is highlighted environmental considerations and general characteristics of the Nanosystem used. The conclusions should be stated from the results to then add some comments about the impact in the environment. Highlight the results obtained in this section. Discuss about innovation, etc. but based on the work developed. Ix) Check references. Consider to add new ones or more recents. X) Check chemicals species involucred, ions, capping agents or stabilizers of NPs, charges, pH and interactions. Add further discussion related.</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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