Review Form 3

Journal Name:	**Asian Journal of Chemical Sciences**
Manuscript Number:	**Ms_AJOCS_124427**
Title of the Manuscript:	**2-(4-fluorobenzyl) chromeno [2,3-c] pyrozol-3(2H)-one as copper corrosion inhibitor in HNO3 : gravimetric and quantum chemical investigation methods**
Type of the Article	

General guidelines for the 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.
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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
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 authors have done experimental studies to establish a correlation between the theoretical molecular properties of 2-(4-fluorobenzyl) chromeno [2,3-c] pyrozol-3(2H)-one. This manuscript will provide useful information for the readers. The results have been displayed properly in the manuscripts. However, I have a few queries that the authors should address.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	The article entitled "2-(4-fluorobenzyl) chromeno [2,3-c] pyrozol-3(2H)-one as copper corrosion inhibitor in HNO_3 : gravimetric and quantum chemical investigation methods" is suitable for the work done by authors.	
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 of the manuscript is comprehensive. However, authors can include the correlation between experimental and theoretical studies in the abstract section.	
Are subsections and structure of the manuscript appropriate?	It is well structured.	
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 authors aimed to investigate the inhibition property of 2-(4-fluorobenzyl) chromeno [2,3-c] pyrozol-3(2H)-one for copper corrosion in 1M nitric acid solution using gravimetric method and quantum chemical calculations. The effect of temperature, time of immersion m and concentration of the inhibitor on inhibition efficiency was studied. Activation kinetic parameters and thermodynamic adsorption parameters of the inhibition were evaluated.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	The manuscript was well structured, and the references are sufficient for the manuscript.	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	The quality of the language of the article is adequate for publication.	
Optional/General comments	1. What is the reason for selecting this compound to study copper corrosion in 1M nitric acid solution? 2. The literature review in the introduction is not adequate.	

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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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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