

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_130164
Title of the Manuscript:	Computational Study on Aluminum Corrosion Inhibitive Potentials of Preferred Thiosemicarbazide Derivatives
Type of the Article	

PART 1: 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. A minimum of 3-4 sentences may be required for this part.	Yes, corrosion protection of Al surface in corrosive environment becomes a very vital issue in industries	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title of the article is appropriate	
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.	ok	
Is the manuscript scientifically, correct? Please write here.	Yes, Satisfactory	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	ok	

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Is the language/English quality of the article suitable for scholarly communications?	fair, need improvements	
Optional/General comments	<p>The items that need to be corrected are as follows:</p> <ol style="list-style-type: none"> 1. Clarify the specific environment in which the corrosion behavior of these inhibitors was assessed (was it acidic or alkaline?). 2. The abstract includes the full names of the inhibitors along with the simulation methods and their abbreviations; therefore, only abbreviations should be used in other sections of the article, and further explanations should be omitted. 3. In the text of the introduction, there is no mention of figure 1, and suddenly this figure is given at the end of the introduction. 4: In the introduction section, one paragraph should be dedicated to the mentioned inhibitor derivatives and at least 2 literature reviews should be evaluated about these inhibitors. 5: The innovation and importance of the subject should be mentioned at the end of the introduction 6. The mechanism of action for these inhibitors needs clarification (is it physical adsorption, chemical adsorption, or film formation?). 7: The authors should dedicate a section in the article to the economic study of inhibitors in the form of a table and compare it with other inhibitors. <p>This article assesses the corrosion behavior of aluminum in the presence of Thiosemicarbazide derivatives through Monte Carlo and DFT methods. Based on the evaluations, it is recommended that this article undergo major revisions before publication in this journal. The following corrections are necessary:</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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Milad Edraki
Department, University & Country	Islamic Azad University, Iran