



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_10528
Title of the Manuscript:	CORROSION INHIBITION AND PITTING CORROSION OF SOME AUSTENITIC STAINLESS STEEL SAMPLES IN 2.5 M NaCl SOLUTION BY 3- AMINO-1,2,4-TRIAZOLE
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.

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(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	Fig.1a Review the title Page.7 Revie where j^0_{corr} and j_{corr} are the corrosion current density in the absence and presence of ATA in chloride solution respectively, where j^0_{corr} and j_{corr} are the corrosion current density in the absence and presence of ATA in chloride solution respectively. Page .9 It is obvious that in all cases, the inhibition efficiency decreases with elevating temperature. Such behavior can be interpreted on the basis that an increase in temperature decreases the strength of adsorption. These results confirm the suggestion that the adsorption process is a chemisorption in nature. - The author have suggest that the inhibition mechanism involves physical-adsorption (physisorption) at it have been supported by E_a values, IE decrease with temperature and ΔG_{ads} values (all values in a good range for physisorption)., it seems that there is a contradiction in fact since ΔG are assigned: 1) at -20 kJ/mol and more (physisorption) 2) At ~-40 to -20 kJ/mol (semi-physisorption/semi-chemisorption) 3) At -40 kJ.mol and less (chemisorptions)	- The title has been reviewed. - The repeated sentence was removed. - We repeated writing this part and it is concluded that the adsorption is chemisorptions in page 11 and confirmed that using reference No 24.



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	Fig.4 Review the title The title has been reviewed	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	• Supportive information by means of electrochemical studies (electrochemical impedance) should be included • I would suggest that the author include the Langmuir and Frumkin curves • Why do not choose the same concentration from inhibitor for all samples	