

Review of: "Use of the experimental designs as an approach to optimize the inhibition efficiency of a Pyridazine derivative against corrosion of steel in an acidic medium"

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Potential competing interests: No potential competing interests to declare.

COMMENTS TO QEIOS

The manuscript title: Use of the experimental designs as an approach to optimize the inhibition efficiency of a Pyridazine derivative against corrosion of steel in an acidic medium is a good work however it needs some minor corrections.

1. Table 1 and its title should be on top of the table.
2. The percentages is in decimal points and not commas.
3. Use equation editor in writing all equations where applicable.
4. Number them serially and flash to the right hand side.
5. Kindly explain Haut du formulaire in the 3.2
6. Please compare the results obtained with the existing literature. You made mention of researcher(s) in the wok but none was cited. Some citations that can be of help include but not limited to;
 - i. Loveth N. Emembolu, Chukwunonso O. Aniagor, Josiah C. Umembamalu, Chukwunonso N. Onyenanu, (2021), Electrochemical and statistical study of the inhibition effect of T. conophorum leaf extract on aluminum corrosion in acidic medium, Safety in Extreme Environments. (Springer). <https://doi.org/10.1007/s42797-021-00040-2>.
 - ii. Emembolu, L. N and Onukwuli, O. D., (2020), Inhibitive effect and adsorption study of *Chromolena odorata* and *Aspilia africana* as corrosion inhibition of zinc in 1 M H₂SO₄ solution, Journal of Engineering and Applied Sciences, 16(1), 108-116
 - iii. L. N. Emembolu, O. D. Onukwuli, V. N. Okafor, (2020), Characterization and Optimization study of *Epiphyllum oxypetalum* extract as corrosion inhibitor for mild steel in 3 M H₂SO₄ solutions, World Scientific News, 145, 256-273
7. The regression variance analysis table provides a useful tool for... what Table no are you describing?
8. Kindly label all the figures properly.
9. Mention figure whatever being described where it supposed to be.

10. The mathematical model derived from the experiment is highly accurate and can be used to predict corrosion rates at any point... how?