

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.

The authors have prepared the well comprehensive manuscript.

I have a few observations

- Summary of the results should be reflected in the abstract.
- Give space for the unit, in conclusion, and in section 2.4, "with the 1cm surface steel serving a"
- E% formula should be written properly.
- **Section 3.3:** under Calculation of coefficients using coded variables -Polish the sentence-

"This information about the degrees of freedom is important because it helps to determine the statistical significance of the results. In this case, with six degrees of freedom, a statistical analysis can be".

- Structure-property relationship could have been discussed in depth.

The manuscript may be published after **major revision**, as indicated above.