

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.

This paper can be rectified before it is considered to be published. My specific and suggestions comments are listed below:

1. The introduction are too general and trivial. A lot of citations are put together in one sentence. It is advisable to elaborate more from general topic to specific topic that can be highlighted at the end of paragraphs.
2. The authors mentioned the problem statement, however, the novelty of the paper is not clear.
3. They are too many citations with old references. The recent only one new reference that is 2020. It is advisable to add on more citations around 5 years recent references.
4. There are a lot of research on Pyridazine derivative, what is the different this paper with others.
5. The authors did not mentioned the type of steel; mild steel? what type of carbon steel?
6. The elaboration should be added in the section of each parameters.
7. Why choose Doehlert Matrix? Is there any use of Full Factorial Design and Response surface?
8. If the authors can compare the results with Doehlert design, Central Composite design and Box-Behnken design, it's will make this paper more interesting. Or the authors can cite the paper related that shows the efficiency of Doehlert design is higher than others.

Thank you.