

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.

Manuscript: 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.

Issam and coworkers reported a manuscript aimed to optimize the performance of a pyridazine derivative as an inhibitor against steel corrosion in 1M HCl solution. The Inhibition efficiency (IE%) was modeled, by means of Dohler matrix and NemrodW software, in terms of the most influential parameters affecting the corrosion phenomenon: concentration, temperature, and immersion time. The manuscript is well written and the approach is fresh.

1. State clearly the reasons of your interest in the Pyridazine derivative selected.
2. Please, include other studies based on Dohler matrix to choose the terms of models to predict the corrosion inhibition of molecules on steel.
3. Since the optimal conditions were found at (Time=12h, Concentration of MDP=0.3 mmol/l, Temperature=30°C. It is possible to compare them with other ones reported for similar pyridazine derivatives?
4. References must be upgraded with newer ones (2021 up to date).