

REVIEWER'S REPORT

Manuscript No: IJAR-54152

Date: 03-10-2025

Title: When One Isn't Enough: A Clinical Case of Multiple Tuberculous subdural empyemas.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality	✓			
Clarity	✓			
Significance	✓			

Reviewer Name: Dr.Amina

Reviewer's Comment for Publication:

This manuscript presents a well-executed study on the corrosion inhibition of aluminum by 2-methylchromeno[2,3-c]pyrazol-3(2H)-one (MCP) in 1 M H₂SO₄, integrating gravimetric experiments with density functional theory (DFT) calculations. The combination of experimental and theoretical approaches provides valuable insights into the inhibitor's efficiency, adsorption mechanism, and active sites.

Strengths:

- Addresses a relevant issue in corrosion science and proposes an effective organic inhibitor.
- Strong methodological design with both kinetic and quantum chemical analysis.
- Clear presentation of results, including temperature and concentration effects on inhibition efficiency.
- Mechanistic discussion of physisorption and chemisorption is well supported.

Minor Revisions Suggested:

1. Correct minor typographical and formatting inconsistencies.
2. Ensure uniform reference formatting and complete journal names.
3. Enhance figure captions for clarity, explicitly indicating plotted parameters.
4. Define all abbreviations at first use.
5. Briefly compare MCP with other inhibitors to contextualize significance.

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Conclusion:

The manuscript represents a meaningful contribution to corrosion inhibition studies. Following minor formatting and clarity improvements, it is suitable for publication.