

Review of: "Investigating the Mechanical and Tribological Effects of MoS₂ Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study"

Mohammed Fayad¹

¹ University of Technology - Iraq

Potential competing interests: No potential competing interests to declare.

Reviewer comments #:

The main topic of the manuscript entitled "Investigating the Mechanical and Tribological Effects of MoS₂ Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study" and the research area of the manuscript is worthy of investigation. I have the following comments that the authors should implement in the revised manuscript:

1. The abstract is fine but still needs improvement and should include more specific results about the main points from this study.
2. Introduction: Clarify the novel contributions of this study in relation to existing literature. Specifically, advance our understanding beyond the findings of other cited studies.
3. In the introduction, the aim of the work must be written in a clearer and more concise way, thus giving more strength to the reason behind this work.
4. Include more detailed descriptions of the experimental setup and methodology.
5. The uncertainty analysis of the results is missing.
6. In general, please go over the results and give more reason for some results and support them with recent references because some explanations of the results are insufficient.
7. The conclusions section needs to be rewritten, and the authors should consider adding brief suggestions for future research.
8. The English language of the manuscript should be carefully checked.

Thank you