

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

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Potential competing interests: No potential competing interests to declare.

The material under investigation is relevant for industrial usage, but the quality of the manuscript needs improvement.

- 1. The abstract provides a good overview but could be more concise.
- 2. All the experimental results should be thoroughly analyzed and discussed for better understanding.
- 3. Up-to-date references should be added, particularly for data like the information in Table 1.
- 4. The images and graphs are of poor quality and hard to understand.
- 5. EDS is mentioned several times but not included in the paper.
- 6. Additional supportive experiments would be beneficial.
- 7. The title says Tribological effects. But no experiments related to tribology have been mentioned in the manuscript.
- 8. The stress-strain curves are unusual and not very typical; they should be presented together, and the parts where the stress is equal to zero should be corrected. Additionally, the micrographs in Figures 3, 4, and 5 need scale bars.

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