

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.

1. The present manuscript is more like a test report than an academic article, lacking the analysis and discussion of the experimental results. It is necessary for alloys or composites to reveal the relationship between their compositions, microstructures, processing states, and properties.
2. In the section of "Materials and methods," the functionality of molybdenum disulfide was introduced in detail, but this manuscript is about the effect of MoS₂ on the mechanical properties of Mg-based composites.
3. I cannot find the content of MoS₂, which is important for a composite.
4. The stress-strain curves, particularly the one in Fig. 3, are unusual and need double checking.
5. So, I regret to recommend against publishing this manuscript.