

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 authors should introduce the advantages of MoS2 material in the introduction section.
- 2. They used MoS2 to improve tensile strength... MoS2 is a relatively soft material and is mostly used as a lubricant.
- 3. They should explain all the experimental methods in the appropriate section and not in results and discussion.
- 4. They used a Brinell hardness tester and reported Vickers hardness; this is quite strange.
- 5. They should show hardness and tensile testing results from the unprocessed alloy.
- 6. In the title, they speak about tribological effects, and there are no tribological testing performed...

Generally, the paper needs to be better organized, and more experiments should be performed. Finally, the authors must give strong reasoning for adding MoS2 as a material that will improve the tensile strength of the Mg alloy, if that was the goal.

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