

# Review of: "Investigating the Mechanical and Tribological Effects of MoS<sub>2</sub> Reinforcement in AZ91 Magnesium Alloy: A Comprehensive Experimental Study"

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Potential competing interests: No potential competing interests to declare.

The reported work discusses the impact of the processing parameters on the friction stir processing of AZ91 and a Mg alloy reinforced with MoS<sub>2</sub>. The following queries are to be addressed by the authors:

1. What is the significance of the reinforcing material MoS<sub>2</sub> in this work?
2. Why do the authors give more emphasis to the bandgap of MoS<sub>2</sub> in this work?
3. Discussion on processing conditions for material development is lacking.
4. How do the results of hardness testing affect the performance of AZ91 and a Mg alloy reinforced with MoS<sub>2</sub>?