

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.

Include statistical analysis to validate the results

- **Analysis of Variance (ANOVA); T-test; Regression Analysis.**

Diagrams of the FSP tool and setup.

Flowcharts of the experimental procedure.

Microstructural images before and after FSP.

Graphs showing hardness and tensile strength data.

Compare the enhanced tensile strength and hardness with previous studies on AZ91 alloys reinforced with different materials.

Highlight the unique benefits of using MoS₂ as a reinforcement material.

- **Lubrication; Mechanical Enhancement; Thermal Stability;**
- **SiC Reinforcement; Al₂O₃ Reinforcement; Graphite Reinforcement**