

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

Akeem Oladele Ademati¹

¹ Federal University of Technology, Akure

Potential competing interests: No potential competing interests to declare.

In the title; using Investigating and concluding with comprehensive study seems like a tautology

why not write the title as;

An Experimental study of the Mechanical and tribological effects of MoS₂ Reinforcement in AZ91 Magnesium Alloy.

Try and add more empirical findings to the abstract; you can still remove some definitions to create more space; add concise results that displays the key outcomes in numbers.

use very recent literatures to buttress and justify quotes, statements that sounds like facts to corroborate your claims; this will further add credibility to your work.

Make comparison to other alloys, reveal the advantage of this findings that closes gaps in some other alloys; discuss those alloys; cite literatures of such; this will be an eye opener to those considering alternate options for adoption and applications.

add insights that will reveal the novelty of the research in the concluding part of your introduction, this will arouse curiosity of readers about the gap bridged by the research.

It is however commendable that the grammar and vocabulary combinations engaged in the study write-up was good; should it however be the case that AI or software tools for writing were used; please do well to acknowledge in your bibliography.

Good pictures that were well labelled, relevant and detailed were used for the study.

The SEM analysis was vital and productive in driving home the findings of the research as this revealed cogent findings at Micro level of the research.

However find relevant literatures to discuss the findings; your title says STUDY; it will only be a study when you meticulously discuss the findings with relevant literatures that not only agrees; but also those that contradicts; then you discuss likely reasons why; this will really beautify your articulation.

The recommendations for further studies was a right step in the right direction; it brings out the clarity in the pathway forward for further researches.

Arrange the references in Alphabetical order of Author names.

This is an excellent research with relevant findings that will add to the body of knowledge and provide solutions that is much needed.