

# Review of: "The Influence of Hot Extrusion on The Mechanical and Wear Properties of an Al6063 Metal Matrix Composite Reinforced With Silicon Carbide Particulates"

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Potential competing interests: No potential competing interests to declare.

This manuscript investigates the mechanical and wear behaviour of aluminium 6063 alloy reinforced with different weight fractions of silicon carbide. The result is interesting and has the potential to contribute to the development of new lightweight composite materials. However, as a paper to be published, there are several deficiencies that should be improved.

1. The chemical elements, stress-strain curves, and microstructures of the mentioned aluminium 6063 alloy with different weight fractions of SiC should be added.
2. Compared to Graph 3, does it mean that increased SiC improves tensile strength but deteriorates shear strength? This is important and should be discussed deeply.
3. What is the meaning of the wear rate when using the unit "micrometers"? This should be reconsidered.
5. The last conclusion should be written as it is not rigorous.
6. Figures lack clarity and details; hence, the evidence for discussion is insufficient.
7. Error bars for the results should be added to Graphs 1-8, 10, 11, and 13.
8. A scale bar should be added to all SEM figures.
9. Units should be consistent with commonly used forms, such as MPa, GPa, kg/m<sup>3</sup>, etc.
10. English writing should be improved; it is very hard to understand many sentences.