

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

Ling Zhang<sup>1</sup>

<sup>1</sup> Chongqing University

Potential competing interests: No potential competing interests to declare.

The authors studied the influence of hot extrusion on the mechanical and wear properties of an Al6063 metal matrix composite reinforced with silicon carbide particulates. Here are some questions/suggestions.

1. The first sentence, "The alloys are the main constituents for the development of metal matrix composites. Aluminium is the most efficient and commonly used alloy due to its high strength-to-weight ratio, high corrosion resistance, and ease of availability," can be rewritten as "Aluminium is the most efficient and commonly used matrix for metal matrix composites due to its high strength-to-weight ratio, high corrosion resistance, and ease of availability."
2. The colors in graph 11 are too close.
3. The quality of the images in the paper needs to be improved. The graphs concerning tensile strength, compressive strength, and hardness can be combined together. SEM micrographs on surface morphology can be combined together.
4. The graphs and figures can all be named as figures.
5. The tensile strength of the 6063-T6 alloys for industrial applications exceeds 200 MPa, while the properties of the specimens in the paper are not considered outstanding.
6. 6063 alloys are usually anodized to improve their hardness, corrosion resistance, and decorative properties. The effect of doping SiC ceramic particles on the surface treatments needs to be considered.
7. Alloy 6063 has good weldability; it is suggested to consider the effect of SiC ceramic particles on the alloy's weldability.
8. The quality of the paper needs further polish.