

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

Massoud Malaki<sup>1</sup>

<sup>1</sup> Isfahan University of Technology

Potential competing interests: No potential competing interests to declare.

The present manuscript deals with the AZ91 composites filled by the MoS<sub>2</sub> reinforcing agent. The paper is suitable for publication if the authors are prepared to do a major revision. The comments are as follows:

- The novelty is under question. Please state what your novelty is. Say it, please, in the abstract.
- Following the previous comment, the authors are encouraged to include the seminal papers in the field. They are also recommended to compare the results with those published in the literature.
- The organization should be better.
- English of the text should be polished.
- The experimental section is not comprehensive, and a discussion on the results should be provided to enrich the quality of the paper.
- References are to be more complete with more recent and relevant papers in the literature.
- These papers are to be cited as well: 1) Malaki, M., Tehrani, A. F., & Niroumand, B. (2023). A novel cast nanocomposite with enhanced fatigue life. *JOM*, 75(1), 145-154., 2) Malaki, M., Tehrani, A. F., Niroumand, B., & Abdullah, A. (2021). Ultrasonically stir-cast SiO<sub>2</sub>/A356 metal matrix nanocomposites. *Metals*, 11(12), 2004., 3) Malaki, M., Xu, W., Kasar, A. K., Menezes, P. L., Dieringa, H., Varma, R. S., & Gupta, M. (2019). Advanced metal matrix nanocomposites. *Metals*, 9(3), 330., 4) Malaki, M., Tehrani, A. F., & Niroumand, B. (2020). Fatigue behavior of metal matrix nanocomposites. *Ceramics International*, 46(15), 23326-23336., 5) Malaki, M., Fadaei Tehrani, A., Niroumand, B., & Gupta, M. (2021). Wettability in metal matrix composites. *Metals*, 11(7), 1034.