

Review Form2

Book Name:	Current Approaches in Engineering Research and Technology
Manuscript Number:	Ms_BPR_2089
Title of the Manuscript:	Experimental Investigation on Tribological and Mechanical Behaviour of Aluminium Joined with Alumina Ceramic
Type of the Article	Book chapter

PART 1: Review Comments

<u>Compulsory</u> REVISION comments	Reviewer’s comment	Author’s Feedback(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	This article is significant for the scientific community as it addresses a critical challenge in automotive materials engineering—balancing weight and wear resistance. By demonstrating the successful bonding of lightweight aluminum with high wear-resistant alumina ceramic using epoxy resin, it offers a viable solution for enhancing material performance in high wear applications. The findings can lead to advancements in automotive design, contributing to improved fuel efficiency and reduced emissions, while also providing a framework for similar innovations in other high-performance engineering fields.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes suitable.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article is comprehensive as it covers the key aspects of the study, including the problem, the materials used, the methods of joining, and the results of the tribological and mechanical tests. However, to enhance clarity and impact, here are a few suggestions: 1. Clearly state the primary objective of the research at the beginning. 2. Briefly mention the most significant findings and their implications.	
Are subsections and structure of the manuscript appropriate?	Yes appropriate.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.	Here are a few suggestions for improving scientific correctness: 1. Experimental Methods: Ensure that the methods are described in sufficient detail so that other researchers can replicate the study. Include specifics about the epoxy resin's mixing ratio, curing time and temperature, and the exact procedures for each test conducted. 2. Error Margins: Report error margins for all measured values, such as hardness, wear resistance, and compression strength. This provides a clearer understanding of the variability and reliability of the results.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes sufficient.	

Review Form2

Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes, language is fine, however, can be improved. Ensure the tables are correctly numbered and referred to in the text.Ensure all figures and tables are clearly labeled, referenced, and formatted consistently.By addressing these minor revisions, the manuscript will be significantly improved.	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

Name:	Palanisamy Chockalingam
Department, University & Country	Multimedia University, Malaysia