

**BPI Review Form 070520**

Book Name:	<b><u>Current Innovations in Chemical and Materials Sciences</u></b>
Manuscript Number:	<b>Ms_BP_8733A</b>
Title of the Manuscript:	<b>Effect of amount of boron carbide on wear loss of Al-6061 matrix composite by Taguchi technique and Response surface analysis</b>
Type of the Article	<b>Book chapter</b>

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)
Is the manuscript important for the scientific community? Please write a few sentences explaining your answer	Is the manuscript important. When wear loss is experienced, coupled with other undesirable processes such as creep and fatigue in machines or systems such as automobiles and aircrafts, the surfaces concerned degrade. Consequently, the failure of the material system or the function expected from that system occurs. Moreover, studying how to optimize such as phenomenon as wear loss is a great advantage to the scientific community. Although the Taguchi method used to optimize the wear loss is not new, the study of the variation of boron carbide as it affects the Al-6061 matrix composite is informative and useful to reinforce what is already known in the literature. On this basis, it is suggested that the present book chapter should be published. Besides, it informs new entrants into the composite area on a useful and enriching research effort could be focused. This aspect is to introduce reinforcement materials in their single, dual and multiple forms and observe how they assist in reducing wear loss on the Al6061 material. Furthermore other variants of Taguchi method, including Taguchi-Pareto and Taguchi-ABC may be tested in failure works. Proponents of these variants argue that prioritization of the experimental trial is possible to eliminate loss useful experimental trials and obtain improved optimization results.	
Is the title of the article suitable? Do you have any alternative Title in your mind?	Yes	
Is the abstract of the article comprehensive? If your answer is No, please provide suggestions	Yes	
Do you think the English quality of the article is suitable for scholarly communications? If your answer is No, please provide suggestions	Yes	
Please provide your comments regarding the appropriateness of different sections of the manuscript.	All the parts of the manuscript are well written in my view.	
Do you think that the references in the manuscript are proper, recent and sufficient? If you have any suggestions, please write here.	The references are okay	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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