

**Review Form 1.7**

Journal Name:	<a href="#">Journal of Materials Science Research and Reviews</a>
Manuscript Number:	<b>Ms_JMSRR_114644</b>
Title of the Manuscript:	<b>Current status of aluminising research on titanium alloys</b>
Type of the Article	<b>Review Article</b>

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**PART 1: Review Comments**

	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)
<p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p><b>Yes</b>, the manuscript is important for the scientific community, particularly for those working in materials science, metallurgy, and related fields. It addresses critical limitations of titanium and its alloys—materials renowned for their corrosion resistance, high strength-to-weight ratio, biocompatibility, and other beneficial properties—by exploring methods to enhance their surface hardness and wear resistance through boride-titanium intermetallic compounds.</p> <p>The title "<b>Current status of aluminising research on titanium alloys</b>" might not be the most suitable for the abstract provided, as the focus of the abstract is primarily on the boriding processes (such as titanium alloy embedding permeability, surface molten salt electrolysis boron permeability, and plasma boron permeability) to improve the surface hardness and wear resistance of titanium alloys. The abstract discusses the application of boride-titanium intermetallic compounds for enhancing the properties of titanium alloys, rather than aluminizing processes. A more appropriate title that reflects the content and focus of the abstract could be "<b>Advancements in Boriding Techniques for Enhancing Titanium Alloy Performance</b>" or "<b>Improving Titanium Alloys Through Boron Permeability: Methods, Parameters, and Mechanisms</b>". These suggested titles directly relate to the main topics covered in the abstract, providing a clear indication of the research focus and the methods discussed for improving the properties of titanium alloys.</p> <p><b>Yes</b>, abstract to be considered comprehensive.</p> <p>The subsections are <b>not appropriate</b>, need to be modified.</p> <p><b>Yes</b>, Based on the abstract provided, the manuscript appears to be scientifically correct within the context of materials science and engineering. The summary accurately reflects known characteristics of titanium and its alloys, including their benefits.</p> <p><b>Yes</b>, Sufficient.</p> <ol style="list-style-type: none"> <li>1. Kindly check the Keywords Symbols,</li> <li>2. Cite the references properly, if possible,</li> <li>3. While explaining the figures, cite in paragraph and explain about it.</li> <li>4. Kindly, Follow the same font style to all the sections.</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>	<p><b>Yes</b></p>	
<p><b>Optional/General</b> comments</p>	<p>Author should modify all the following,</p> <ol style="list-style-type: none"> <li>1. Check for the provided title, if possible rechange.</li> <li>2. Kindly check the Keywords Symbols,</li> <li>3. Cite the references properly, if possible,</li> <li>4. While explaining the figures, cite in paragraph and explain about it.</li> </ol>	

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	5. Kindly, Follow the same font style to all the sections.	
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**PART 2:**

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

**Reviewer Details:**

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