

Review Form 3

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_123528
Title of the Manuscript:	Bio Based Coatings for Packaging Paper Applications - A Brief Technology Review
Type of the Article	Review

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PART 1: Review Comments

Compulsory 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)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is significant importance to the scientific community as it addresses the need for sustainable alternatives to packaging materials. By reviewing the latest advancements in bio-based coatings, the manuscript provides valuable insights into their performance characteristics, application methods, and potential to reduce environmental impact. Despite the current challenges in packaging, this manuscript provides innovative research directions that could lead to innovative solutions in the future.</p> <p>However, there are some important information that need to be explained/described in this manuscript for better understanding to the readers. The items include as follows:</p> <ol style="list-style-type: none"> 1. The abstract is too general and no information given on the packaging paper applications and also the bio-based coatings. 2. There are no figure(s) included in this manuscript. It is advisable to include figure(s) for the understanding of the authors such as flowchart of the paper manufacturing, timeline of the technology of the paper packaging industry, figure of each bio-based coating in terms of chemical bonding and etc. 3. Numbering of the heading and subheading should be 2.0 Bio-based, 2.1 Algae coatings, 2.2 Alginates, and so on. 4. There are Thermoplastic coatings under section 8, is it consider as diamond like coatings? In the second last paragraph of the section, it seems that diamond like coating and thermoplastic coatings is different. 5. Please be consistent in citing the references. In some cases it is cited as [1-3], [6-8], [12-14], while in some cases it is written as [23,24,25,26], [28,29,30,31] and others. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title accurately reflects the content and purpose of the manuscript</p>	
<p>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.</p>	<p>The abstract could be comprehensive if the author briefly explains about the outline of the article instead explaining about the history of the topic. For example authors may include the urgent need for sustainable alternative for packaging, application, challenges etc because it is become major discussion for the environmentally friendly technology for the sustainable development.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The subsections and structure of the manuscript are appropriate but need to reorganized to facilitate a clear understanding of the topic. The use of distinct sections, such as the introduction, overview of bio-based coatings, performance characteristics, application techniques, challenges, and future trends need to rearrange. Others such as numberings can be improved accordingly.</p>	
<p>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 minimum of 3-4 sentences may be required for this part.</p>	<p>The authors demonstrate good scientific correctness and technical soundness in their review of current literature and established methodologies in bio-based coatings for packaging paper applications. This article is up-to-date information based on data and references from reputable sources. The manuscript also assesses the performance characteristics and application techniques of bio-based coatings, highlighting both their advantages and limitations. However, the conclusion is too general that can be improved by the authors to add some most commonly used coatings by the industry, or the best coating technology available in the markets with lowest production cost.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>This article has most up-to-date information based on data and references from reputable sources.</p>	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	In terms of language, the article meets the standards expected in scholarly publications, making it a credible contribution to the field. But it is advisable to conduct the proofreading by the reputable source to make sure the meaning to the readers is correct in simple explanation.	
Optional/General comments	The writer must follow the given format. Overly detailed information is written without a clearly defined purpose. In this article, there are far too many topics and subtopics. Perhaps there is a need for the writer to focus on those trends that give the most benefits in terms of cost and sustainability. It may be helpful if the author uses pictures and tables to simplify and clarify his/her explanation. Organize the subtopics into explanations, processes, advantages, limitations, and so on to make reading easier.	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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