

Review Form 1.7

Journal Name:	Journal of Materials Science Research and Reviews
Manuscript Number:	Ms_JMSRR_97825
Title of the Manuscript:	Performance Evaluation of Modified Periwinkle Shell–Derived Adsorbent for CO ₂ Post-Combustion Capture
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://journaljmsrr.com/index.php/JMSRR/editorial-policy>)

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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>1. This is an interesting paper from a technical and scientific point of view because it is concerned with the performance Evaluation of Modified Periwinkle Shell–Derived Adsorbent for CO₂ Post-Combustion Capture Journal of Materials Science Research and Reviews.</p> <p>2. In abstract, the type of adsorption, whether physical or chemical, and the type of isotherm as well.</p> <p>3. The introduction is good, but it lacks references</p> <p>4. Adding the original reference for isotherms by Langmuir, and Freundlich.</p> <p>5. It is preferable to combine the FT-IR spectra into one format so that you can compare.</p> <p>6. A comparative study through a literature survey that reinforces the manuscript.</p> <p>7. Optimum conditions must be stated in each form.</p> <p>8. It is suggested to add the kinetic study and the thermodynamic study to this work.</p> <p>9. It is necessary to clarify the action through the reaction mechanism.</p> <p>10. Please arrange references uniformly</p> <p>11. Suggest you some additional references to enhance the manuscript.</p> <p>https://link.springer.com/article/10.1007/s13399-022-03091-y https://www.annalsofscsb.ro/index.php/journal/article/view/7945 https://iopscience.iop.org/article/10.1088/1757-899X/871/1/012027 https://iopscience.iop.org/article/10.1088/1757-899X/928/5/052021/meta</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	The language is good but needs a slight revision	
<p>Optional/General comments</p>		

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

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