

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_101656
Title of the Manuscript:	Mathematical Modelling and the Effect of Blanching on the Drying Kinetics of White Yam (<i>Dioscorea rotundata</i>)
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://www.journaljerr.com/index.php/JERR/editorial-policy>)

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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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> The manuscript appears to be important for the scientific community, particularly for researchers and professionals working in the field of food processing and drying kinetics. The study investigates the effect of blanching, a commonly used thermal pretreatment, on the drying kinetics of white yam slabs. It evaluates three thin layer models and develops a mathematical model to describe the drying kinetics of blanched yam slabs. Based on the information provided in the abstract, the title of the article could be improved to better reflect the focus and findings of the study. For instance, "Effect of Blanching Pretreatment on Drying Kinetics and Quality of White Yam (<i>Dioscorea rotundata</i>) Slabs" or "Enhancing Drying Efficiency and Product Quality of White Yam Slabs through Blanching Pretreatment" The abstract you provided is fairly comprehensive in summarizing the main aspects of the study. It introduces the use of various pretreatment methods for reducing drying time and improving product quality. It specifically focuses on blanching as a well-established thermal pretreatment for agricultural products and highlights its ability to eliminate enzymes that cause undesirable changes in color, flavor, texture, and nutrients. While the abstract provides a good overview of the study, it could benefit from more specific details about the experimental methodology, sample sizes, and any limitations or implications of the findings. However, these aspects may be further elaborated upon in the full manuscript. Yes, from introduction to conclusion International Institute of Tropical Agriculture (IITA). Annual report, IITA Ibadan, 2009. pp 31-33. This reference is relatively old <p>Bamire A.S. and Amujoyegbe B. J. Economic Analysis of Land Improvement Techniques in Small-Holder Yam-Based Production Systems in the Agro-Ecological Zones of South Western, Nigeria. <i>J. Human Ecol.</i> 2005. 18(1): 1-12.</p> <p>(Similarly, this reference is quite dated. It might still provide valuable insights depending on the specific context. However, it is generally preferable to cite more recent studies to ensure the inclusion of the latest research and advancements.)</p> <p>Food and Agriculture Organization (FAO) F.A. FAO STAT. Statistics Division of Food and Agriculture Organization. 2005. This reference, again, is quite old and may not reflect the most up-to-date information. It is advisable to check for more recent statistical data from reputable sources like FAO's latest publications or databases.</p> <p>In general, it is important to prioritize more recent references, especially in rapidly evolving fields. However, there may be cases where older references are still relevant and provide foundational information or historical context. It's best to consult the guidelines or requirements of the specific publication or institution to ensure the acceptability of references.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	Yes	
<p>Optional/General comments</p>	The abstract provides a clear overview of the study's objectives, methodology, and key findings, highlighting the investigation of blanching as a pretreatment method for improving drying kinetics, moisture diffusivity, and final product quality. However, lacks specific details regarding the sample	

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	size, experimental setup, and statistical analysis used, making it difficult to assess the robustness and generalizability of the results presented.	
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PART 2:

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

Reviewer Details:

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