

Review Form 3

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_130622
Title of the Manuscript:	Biosorbent Based on Tomato Stems: Adsorption Properties Using Methylene Blue as Pollutant Test
Type of the Article	Original Research Article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	<p>The manuscript presents a methodologically study on tomato stem-derived activated carbon for methylene blue removal. While following standard protocols, it contributes to sustainable waste management research.</p> <p>This work addresses wastewater treatment using agricultural waste, specifically tomato stems from Côte d'Ivoire's agricultural sector. The study demonstrates practical application of waste valorization would strengthen its scientific impact</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	<p>The current title "Biosorbent Based on Tomato Stems: Adsorption Properties Using Methylene Blue as Pollutant Test" is suitable but could be more precise.</p> <p>Suggested alternative:</p> <p>Biosorbent from Tomato Stems: Adsorption Properties Using Methylene Blue as Pollutant Test</p> <p>This revision reflects:</p> <ul style="list-style-type: none">• The biosorbent material source (tomato stems)• The target application (adsorption)• The test pollutant (methylene blue) <p>"Based" is unnecessary and makes the title wordier without adding meaning</p>	

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<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 is ok but would benefit from:</p> <p>Add:</p> <ul style="list-style-type: none"> • Surface characterization details of the prepared activated carbon • Maximum adsorption capacity value (4.15 mg/g) • Brief comparison with similar adsorbents <p>Delete:</p> <ul style="list-style-type: none"> • Vague descriptor "cheaper, safer and more effective" 	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript is scientifically correct with appropriate experimental methods and data analysis, but has several areas needing correction:</p> <ol style="list-style-type: none"> 1. Missing material characterization (BET, FTIR, SEM) prevents validation of proposed adsorption mechanisms 2. Temperature dependence claims lack thermodynamic parameters (ΔH, ΔG, ΔS) 3. Pseudo-second-order kinetics conclusion needs stronger justification beyond correlation coefficient 4. Point of zero charge methodology requires more detailed experimental description 5. Error bars/statistical analysis absent from all figures 6. Unit conversions and calculations need verification (especially in Tables 2-4) <p>While these issues don't invalidate the findings, addressing them would strengthen the scientific rigor</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Some additions would strengthen the manuscript:</p> <ol style="list-style-type: none"> 1. Include recent reviews on agricultural waste-based activated carbons for dye removal 2. Add references on surface characterization techniques for activated carbons 3. Include thermodynamic studies of methylene blue adsorption <p>Suggested references:</p> <ul style="list-style-type: none"> • Dauda et al. (2023) "Investigation of Adsorptive Removal of Methylene Blue from Synthetic Wastewater Using Polymeric Composite" JOTCSA, 961-974 • Dada et al. (2020) "Biosorption of bromo-based dyes from wastewater using low-cost adsorbents: A review" J. Sci. Res. Rep., 26(8):34-56 • Dada et al. "Application of Agricultural Waste for the Adsorption of Pharmaceutical Pollutants in Wastewater: A Review" <p>These would strengthen:</p> <p>Comparative analysis section, Methodology validation and Current state-of-art discussion</p>	

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Is the language/English quality of the article suitable for scholarly communications?	While generally clear, the manuscript needs editing for technical phrasing and formatting consistency (e.g., "high--quality" vs "high quality", "L^-1" vs "L^-1")	
Optional/General comments	RECOMMENDATION: The manuscript requires revision before publication consideration. The authors must: <ul style="list-style-type: none">• Add comprehensive material characterization• Provide comparative advantages over existing adsorbents• Include thermodynamic analysis• Improve technical presentation quality	

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>	

Reviewer Details:

Name:	Monsuru Olatunji Dauda
Department, University & Country	Louisiana State University, USA