

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_125503
Title of the Manuscript:	EFFECT OF GREEN SYNTHESIZED SILVER AND ZINC NANOPARTICLES ON SEED QUALITY OF MAIZE
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION 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>
<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 work emphasizes the effects of green-synthesized silver (AgNPs) and zinc nanoparticles (ZnNPs) on enhancing maize seed quality, which is vital for tackling agricultural difficulties. The use of eco-friendly synthesis via neem leaf extract is significant, offering an alternative to chemical approaches while improving seed germination, vigor, and general plant health. I like how the work illustrates the capacity of nanoparticles to enhance seed resilience, since it paves the way for sustainable agriculture techniques. Nonetheless, further field research are required to validate the laboratory results in real-world contexts.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title "Effect of Green Synthesized Silver and Zinc Nanoparticles on Seed Quality of Maize" is informative but could be made more specific and engaging. A clearer focus on the results and the broader agricultural implications could enhance its appeal. Suggested alternative title: "Enhancing Maize Seed Quality Through Green Synthesized Silver and Zinc Nanoparticles: A Sustainable Approach" This version highlights both the method (green synthesis) and the study's purpose (enhancing seed quality) while hinting at its agricultural significance.</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 offers a concise summary of the study's objectives, methodologies, and findings; however, it might be enhanced with a few refinements for improved clarity and comprehensiveness.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript's format is mostly suitable; however, delineating the Results and Discussion sections and using more visual aids (graphics) would enhance clarity. Incorporating a "Significance of Study" paragraph would effectively underscore the relevance of the results.</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 manuscript seems to be scientifically rigorous and technically proficient for several reasons. The use of green-synthesized nanoparticles, namely silver (AgNPs) and zinc (ZnNPs), is shown as an environmentally sustainable and economically viable substitute for traditional techniques, in accordance with contemporary trends in sustainable agriculture. The experimental design, using a fully randomized design (CRD) with duplicates and control treatments, guarantees statistical reliability. The research carefully assesses essential seed quality indicators, including germination, root and shoot length, and seedling vigor, yielding complete data. The results are juxtaposed with existing literature, so strengthening the validity of the findings and substantiating the methodological 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>The references cited in the manuscript appear relevant but may not be fully sufficient or recent in some areas. While the references are generally appropriate, adding more recent studies and expanding the scope to include more mechanistic insights would enhance the manuscript's scholarly depth.</p>	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	I would recommend a professional English proofreading service or a detailed internal review to address some minor issues. This will ensure the manuscript adheres to the high standards expected in scholarly journals, improving clarity and precision. Overall, the language is suitable for scientific communication but would benefit from polishing for grammar, structure, and consistency.	
Optional/General comments		

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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