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| Journal Name: | [**Asian Journal of Physical and Chemical Sciences**](https://journalajopacs.com/index.php/AJOPACS) |
| Manuscript Number: | **Ms\_AJOPACS\_132704** |
| Title of the Manuscript:  | **ECO-REMEDIATION STRATEGIES: EGGPLANT (Solanum melongena L.) DERIVED BIOSORBENT NITRATE REMOVER IN SIMULATED WATER** |
| Type of the Article |  |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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)* |
| **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.** | This manuscript contributes significantly to the scientific community by exploring the efficacy of eggplant-derived biosorbents in removing nitrates from contaminated water. The study's findings have important implications for the development of sustainable, cost-effective, and eco-friendly solutions for water remediation, particularly in resource-limited settings. By highlighting the potential of agricultural waste as a valuable resource for environmental remediation, this research promotes a circular economy approach and addresses global concerns related to water pollution, food security, and waste management. Furthermore, the manuscript's emphasis on optimizing experimental conditions and parameters provides valuable insights for future research in the field of biosorption and environmental engineering. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The current title, "ECO-REMEDIATION STRATEGIES: EGGPLANT (Solanum melongaria L.) DERIVED BIOSORBENT NITRATE REMOVER IN SIMULATED WATER," is quite long and includes multiple elements.Here's a suggested alternative title that's more concise and focused on the main topic:"***Assessment of Eggplant-Derived Biosorbent for Nitrate Removal from Contaminated Water: A Sustainable Approach***"This revised title still conveys the main theme of the article, emphasizing the eco-friendly and sustainable aspects of using eggplant-derived biosorbents for water remediation. |  |
| 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. | The abstract appears to be comprehensive, providing a clear overview of the research paper's main objectives, methodology, key findings, and conclusions. |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript appears to be scientifically correct, with a clear research question, sound methodology, proper data analysis, and consistency with existing literature. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references provided are sufficient and cover a range of relevant topics, including biosorption, nitrate removal, and water treatment. The references are also relatively recent, with most publications dating from 2017 onwards.However, to further enhance the manuscript, consider adding references from high-impact journals and more recent publications (2023-2025) to ensure the research is up-to-date and aligned with the latest developments in the field. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language and English quality of the article are generally good, making it suitable for scholarly communication, although minor editing and revisions can further enhance clarity, coherence, and readability. |  |
| Optional/General comments | Considerations should be made to add more visual aids, future research directions, practical applications, interdisciplinary connections, and a stronger conclusion to enhance the manuscript's overall impact. |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Argha Modak, The University of Burdwan, India**