

Review Form 3

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_121445
Title of the Manuscript:	Advanced Techniques in Wastewater Treatment: A Comprehensive Review
Type of the Article	

Review Form 3

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 manuscript is crucial for the scientific community as it addresses the pressing need for effective wastewater management due to increasing water scarcity and pollution from various sources. It offers a comprehensive review of advanced techniques in wastewater treatment, highlighting innovative approaches such as membrane filtration processes, advanced oxidation processes (AOPs), and biological treatments. These advanced techniques show superior capabilities in removing complex contaminants, which is essential for sustainable water management and environmental protection. I appreciate this manuscript for its thorough analysis and focus on advanced technologies that could significantly improve wastewater treatment efficiency and effectiveness.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the manuscript, "Advanced Techniques in Wastewater Treatment: A Comprehensive Review," is suitable as it clearly conveys the focus and scope of the content.</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 of the manuscript is comprehensive, covering key aspects of advanced techniques in wastewater treatment, including the necessity for effective management due to water scarcity and pollution, limitations of conventional methods, and the superior capabilities of advanced technologies in removing complex contaminants. However, there are a few suggestions to improve its clarity and depth: Inclusion of Specific Examples: Adding specific examples or case studies of successful implementation of advanced techniques could provide practical insights and enhance the abstract's impact. Highlighting Challenges: Briefly mentioning the challenges or limitations associated with advanced techniques, along with potential solutions, could provide a balanced perspective. Potential Applications: Elaborating on the potential applications of these advanced techniques in various sectors (e.g., industrial, agricultural) could broaden the abstract's appeal and relevance.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of the manuscript appear appropriate and well-organized. It comprehensively covers the various stages and advanced techniques in wastewater treatment. However, a few suggestions might improve clarity and reader engagement: 1. Subsection Detailing: Adding more detailed subsections under each major category (e.g., specific types of membrane filtration, detailed methods in advanced oxidation processes) could help in providing more focused information. 2. Flow and Connectivity: Ensuring that each subsection logically flows into the next can enhance readability. For instance, transitioning from conventional methods to advanced techniques with a clear linkage could be beneficial. 3. Case Studies/Examples: Including real-world case studies or examples within relevant subsections could provide practical insights and applications of the discussed techniques. Overall, the manuscript's structure is sound, but these enhancements could make it more comprehensive and engaging for the readers.</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 appears to be scientifically robust and technically sound due to its comprehensive review of current and advanced wastewater treatment techniques. It presents well-researched information supported by relevant studies, demonstrating a deep understanding of the subject matter. The inclusion of various advanced techniques such as membrane filtration processes, advanced oxidation processes, and biological treatments indicates thorough coverage of innovative solutions in the field. Additionally, the manuscript's detailed analysis of the advantages, limitations, and potential applications of these techniques reflects a balanced and critical approach, ensuring scientific accuracy and reliability.</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 in the manuscript are numerous and cover a wide range of relevant topics in wastewater treatment, indicating a solid foundation of research. However, while many references are recent and up-to-date, there are also some older references. Ensuring that the majority of references are from the last five to ten years could improve the manuscript's relevance and scientific rigor.</p>	

Review Form 3

<u>Minor REVISION</u> comments Is the language/English quality of the article suitable for scholarly communications?	<p>The language and English quality of the manuscript are generally suitable for scholarly communications. The text is coherent, and the technical terms are used correctly. However, there are some areas where the language could be improved for clarity and readability. Ensuring the manuscript undergoes a thorough proofreading to correct any grammatical errors and enhance the fluency of the text would be beneficial.</p> <p>Overall, the manuscript demonstrates a solid grasp of technical terminology and presents the concepts clearly, making it accessible to the target audience of researchers and professionals in the field of wastewater treatment. With minor revisions to enhance readability and correct any minor language issues, the manuscript will meet the standards expected in scholarly communications.</p>	
<u>Optional/General</u> comments		

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:

Name:	Getahun Mekuria Abera
Department, University & Country	Debre Berhan University, Ethiopia