

SDI FINAL EVALUATION FORM 1.1

PART 1:

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 Article :	Review Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>The revised manuscript includes only minor changes, such as edited references and a few additional sentences in the chapters on Adsorption using carbon nanotubes, Aerobic granulation, Microalgae-based wastewater treatment, and Hybrid Constructed Wetlands. Please note that the last section of the chapter on Reverse Osmosis has not been updated.</p> <p>Figure 1 has not been updated to reflect the specific treatment methods, which should typically include the following divisions in wastewater treatment:</p> <ul style="list-style-type: none"> - Preliminary treatment, - Primary treatment, - Secondary treatment, - Tertiary treatment, <p>each encompassing individual processes.</p> <p>As the article discusses advanced treatment, the title should align with this focus. Advanced treatment is also known as tertiary treatment or, more recently, quaternary treatment. The procedures that should be highlighted include:</p> <ul style="list-style-type: none"> - Removal of N and P compounds (tertiary biological treatment), - Advanced Oxidation Processes (AOPs) involving UV, H₂O₂, HO[•], O₃, Fenton reactions, and their combinations, - Membrane processes such as ultrafiltration, microfiltration, nanofiltration, reverse osmosis, etc., - Adsorption using activated carbon, - Electrochemical wastewater treatment methods like electrooxidation, electroreduction, and dialysis, - Adsorption on activated carbon, - Electrochemical wastewater treatment methods (such as electrooxidation, electroreduction, dialysis, etc.). <p>It is important to note that constructed wetlands do not fall under advanced treatment since they involve primary and secondary treatment elements. The same applies to the Microalgae wastewater treatment section.</p> <p>Regarding the revised manuscript's readiness for publication, in my view, it is not yet suitable as it requires further completion and editing.</p> <p>I recommend that the authors refer to foundational texts on advanced treatment, such as:</p> <ul style="list-style-type: none"> - Guyer, 2022: "An Introduction to Advanced Wastewater Treatment (Wastewater treatment engineering)", - Gaav, 2022: "Advanced Oxidation Processes of Wastewater Treatment (English 	

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<p>Edition)",</p> <ul style="list-style-type: none">- Shah, 2022: "Advanced Oxidation Processes for Wastewater Treatment: An Innovative Approach (Wastewater Treatment and Research)",- Kamali et al., 2023: "Advanced Wastewater Treatment Technologies for the Removal of Pharmaceutically Active Compounds (Green Energy and Technology)". <p>By drawing insights from these resources and relevant articles, the authors can craft a robust article that comprehensively reviews advanced wastewater treatment methods.</p>	
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