

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>
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.	The article does not reflect the state-of-the-art in the field of advanced wastewater treatment. It contains a few sections that do not belong in the manuscript (Constructed wetlands, Microalgae treatment, Aerobic granulation). These chapters belong to biological treatment (secondary and tertiary treatment).	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is very appropriate, but the content is not well organised.	
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.	Abstract should be completely reorganised. The abstract will need to be reworked in the light of the reorganisation of the manuscript as a whole.	
Are subsections and structure of the manuscript appropriate?	No. Some chapters are messy, e. g. The <i>Reverse Osmosis</i> subchapter concludes with general descriptions of Advanced oxidation processes. A chapter on ozone-based AOPs follows this conclusion. The <i>MEMBRANE BIOREACTORS</i> chapter is only a part of the <i>Adsorption</i> chapter, which is not even mentioned in the manuscript's text.	
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.	Authors need to be aware that, according to the state of the art, complete wastewater treatment is divided into preliminary, primary, secondary, tertiary and advanced treatment. The term "advanced wastewater treatment" has recently been replaced by "quarternary wastewater treatment". Constructed wetlands and microalgae-based wastewater treatment and aerobic granulation are not subject to advanced or quarternary wastewater treatment.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	<i>References</i> should be arranged alphabetically, which is not the case in the manuscript. References mentioned in the text should be identified so that they can be easily found in the Sources section, e. g. (UN.ECE 1990) in the text and (United Nations. Economic Commission for Europe. (1990). <i>Membrane Technology in The Chemical Industry</i> . New York, United Nations. v, 91 p.) in the chapter <i>References</i> .	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>There are many typographical errors in the text. Authors should use appropriate speller.</p>	
<p>Optional/General comments</p>	<ol style="list-style-type: none"> 1. The content does not entirely align with the title. Explanation: Some processes do not belong to advanced techniques in wastewater treatment. Constructed wetlands are used as secondary treatment and conditional as tertiary wastewater treatment. Aerobic granulation and Microalgae wastewater treatment are connected to biological wastewater treatment and do not belong to advanced treatment. 2. The chapters are written using overly general language and sometimes lack a clear chapter title, e.g. The Reverse Osmosis subchapter concludes with general descriptions of Advanced oxidation processes. A chapter on ozone-based AOPs follows this conclusion. 3. The MEMBRANE BIOREACTORS chapter is only a part of the Adsorption chapter, which is not even mentioned in the manuscript's text. 4. The graphic abstract is very opaque, as the intense colours of the areas make them eligible and without additional text. 5. Figure 1 does not reflect all wastewater treatment processes; in particular, there is no mention of advanced wastewater treatment. The essential treatment processes are nutrient and phosphorous treatment, not mentioned in Figure 1. Apart from that, there is no mention of quaternary treatment, which is the point of the whole manuscript. The correct term for "Rotating Biological Filter" is "Rotating Biological Contactor". 6. Figure 3 is incorrect. In some words are missing some letters. 7. The text under Figure 4 is incomplete and probably does not belong there. 8. Literature sources (Chapter References) should be arranged alphabetically, which is not the case in the manuscript. References mentioned in the text should be identified so that they can be easily found in the Sources section, e. g. (UN.ECE 1990) in the text and (United Nations. Economic Commission for Europe. (1990). Membrane Technology in The Chemical Industry. New York, United Nations. v, 91 p.) in the chapter References. 9. There are many typographical errors in the text that need to be corrected. <p>Proposal to authors</p> <ol style="list-style-type: none"> 1. Authors need to be aware that, according to the state of the art, complete wastewater treatment is divided into preliminary, primary, secondary, tertiary and advanced treatment. The term "advanced wastewater treatment" has recently been replaced by "quarterly wastewater treatment". Figure 1 should be updated accordingly. 2. Disinfection is a particular chapter in wastewater treatment, introduced as needed throughout the treatment process. Disinfection can also be part of quarterly wastewater treatment. 3. Constructed wetlands and microalgae-based wastewater treatment and aerobic granulation are not subject to advanced or quarterly wastewater treatment. 4. Images should be solid, not too colourful, as colour often destroys the clarity of the overall picture. 5. Authors are encouraged to stick to internationally accepted terms. 6. If images are prepared in MS Office (Word, Excel or PowerPoint), care must be taken to ensure that all the text "in shapes" is evident (See Figure 3). 	

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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:

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