



**SYARAT TAMBAHAN USULAN KE GURU BESAR / PROFFESOR
(REVIEWER JURNAL INTERNASIONAL BEREPUTASI)**

Nama : Dr. Elanda Fikri, S.KM., M.Kes
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NIDN : 4011038901
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Unit Kerja : Poltekkes Kemenkes Bandung


IDENTITAS JURNAL YANG DIREVIEW

Nama Jurnal : **Environmental Science and Pollution Research**
Negara : Germany
Area (Scope) : Environmental Science, Medicine
Penerbit : Springer Nature
H-INDEKS : 154
ISSN : 09441344, 16147499
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Quartil : **Q1**
Link Jurnal : [Environmental Science and Pollution Research | Home \(springer.com\)](https://www.springer.com/journal/10142)
Link Scimago : [Environmental Science and Pollution Research \(scimagojr.com\)](https://scimagojr.com/journal/10142)
Link Scopus : [Scopus preview - Scopus - Environmental Science and Pollution Research](https://scopus.com/journalInfo/urn:sid:10142)

TAMPILAN/FRONT REVIEWER ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH

  Environmental Science and Pollution Research Elanda Fikri Logout							
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← Completed Reviewer Assignments							
Page: 1 of 1 (1 total assignments)							
Action	My Reviewer Number	Manuscript Number	Article Type	Article Title	Current Status	Final Disposition	Date Reviewer Invited
View Reviewer Comments View Decision Letter View Attachments	5	ESPR-D-22-02034	Research Article	Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process	Submission Transferred	Transfer	May 07, 2022


REVIEWER INVITATION, 7 MEI 2022, 15:17


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ESPR: Reviewer Invitation for Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process

Yahoo/1. Review ☆


Environmental Science and Pollution Research <em@editorialmanager.com>
 Kepada: Elanda Fikri

Sab, 7 Mei 2022 jam 15.17 ☆

Dear Dr Fikri,

Given your expertise in the field, I would like to ask you on behalf of Environmental Science and Pollution Research if you would be willing to review the above manuscript "Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process" for a possible publication in our journal.

This is the abstract:
 The color and Chemical Oxygen Demand (COD) reduction in distillery industrial effluent (DIW) was investigated utilizing photo (UV), sono (US), electrocoagulation (EC), UV+US, UV+EC, US+EC, and US+UV+EC technologies. The empirical study demonstrated that the UV+US+EC process removed almost 100% of color and 95.63% of COD from DIW while consuming around 6.97 kWh m⁻³ of electrical energy at the current density of 0.175 A dm⁻², COD of 3600 mg L⁻¹, UV power of 32 W, US power of 100 W, electrode pairings of Fe/Fe, inter-electrode distance of 0.75 cm, pH of 7, and reaction time of 4 h, respectively. The values found were much greater than those produced using UV, US, EC, UV+US, UV+EC, and US+EC methods. The influence of various control variables such as treatment time (1–5 h), current density (0.075–2.0 A dm⁻²), COD (1800–6000 mg L⁻¹), inter-electrode distance (0.75–3.0 cm), electrode pairings (Fe/Fe, Fe/Al, Al/Fe, Al/Al), UV (8–32 W), and US (20–100 W) on the color and COD reduction were investigated to determine the optimum operating conditions. It was observed that, an increase in treatment time, current density, UV and US power, decrease in the COD, and inter-electrode distance with Fe/Fe electrode combination improved the COD removal efficiency. The UV and US+EC processes' synergy index was investigated and reported. The results showed that, the US+UV+EC treatment combination was effective in treating industrial effluent and wastewater.

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The manuscript reference is ESPR-D-22-02034.

If possible, I would appreciate receiving your review in 21 days.
You may submit your comments online at the above URL. There you will find spaces for confidential comments to the Editor, comments for the Author and a report form to be completed.

I am looking forward to your response!

With kind regards,

Professor Angeles Blanco
Editor
Environmental Science and Pollution Research


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REMINDER NOTIFICATION, 13 MEI 2022. 11:39

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ESPR - Reminder of Late Invitation Response for Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process Yahoo/Email M... ☆

**Environmental Science and Pollution Research** <em@editorialmanager.com>
Kepada: Elanda Fikri Jun, 13 Mei 2022 jam 11.39 ☆

13 May 2022

Dear Dr Fikri,

On 07 May 2022 we asked you to review a manuscript for our journal. To date the editorial office has not received a response from you.

Please advise as soon as possible if you have time to review this paper within the next 21 days in order to avoid delays in the processing of this manuscript.

If you are able to review this submission please click on this link:
<https://www.editorialmanager.com/espr/l.asp?i=3214165&I=CXCE3WWX>

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Yours sincerely,

Editorial Office
for

Professor Angeles Blanco
Editor
Environmental Science and Pollution Research

Manuscript Number: ESPR-D-22-02034

Title: Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process

Abstract: The color and Chemical Oxygen Demand (COD) reduction in distillery industrial effluent (DIW) was investigated utilizing photo (UV), sono (US), electrocoagulation (EC), UV+US, UV+EC, US+EC, and US+UV+EC technologies. The empirical study demonstrated that the UV+US+EC process removed almost 100% of color and 95.63% of COD from DIW while consuming around 6.97 kWh m⁻³ of electrical energy at the current density of 0.175 A dm⁻², COD of 3600 mg L⁻¹, UV power of 32 W, US power of 100 W, electrode pairings of Fe/Fe, inter-electrode distance of 0.75 cm, pH of 7, and reaction time of 4 h, respectively. The values found were much greater than those produced using UV, US, EC, UV+US, UV+EC, and US+EC methods. The influence of various control variables such as treatment time (1–5 h), current density (0.075–2.0 A dm⁻²), COD (1800–6000 mg L⁻¹), inter-electrode distance (0.75–3.0 cm), electrode pairings (Fe/Fe, Fe/Al, Al/Fe, Al/Al), UV (8–32 W), and US (20–100 W) on the color and COD reduction were investigated to determine the optimum operating conditions. It was observed that, an increase in treatment time, current density, UV and US power, decrease in the COD, and inter-electrode distance with Fe/Fe electrode combination improved the COD removal efficiency. The UV and US+EC processes' synergy index was investigated and reported. The results showed that, the US+UV+EC treatment combination was effective in treating industrial effluent and wastewater.

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PERSETUJUAN REVIEW, 13 MEI 2022, 12:32

ESPR: Thank you for agreeing to review - [EMID:afddab3439675859]

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Angeles Blanco <em@editorialmanager.com>
Kepada: Elanda Fikri

Jum, 13 Mei 2022 jam 13.22 ☆

Dear Dr Fikri,

Thank you for agreeing to review manuscript ESPR-D-22-02034, Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process for Environmental Science and Pollution Research.

If you would like to view and/or download the submission, please click this link: <https://www.editorialmanager.com/espr/l.asp?i=3214820&i=UMRSTK6D>

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We look forward receiving your review by 03 Jun 2022.

There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

With kind regards
Professor Angeles Blanco
Editor
Environmental Science and Pollution Research

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• **Environmental Science and Pollution Research** <em@editorialmanager.com>
Kepada: Elanda Fikri

Jun, 27 Mei 2022 jam 11.41 ☆

Ref.: Ms. No. ESPR-D-22-02034
Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process
Environmental Science and Pollution Research

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Just as a reminder, your review of manuscript number ESPR-D-22-02034 is due by 03 Jun 2022.

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• ESPR - Reminder of Late Review for Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process - [EMID:037eb7fe583a1d27] Yahoo/Email M... ☆

 **Environmental Science and Pollution Research** <em@editorialmanager.com>
Kepada: Elanda Fikri Jum, 10 Jun 2022 jam 11:39 ☆

Ref.: Ms. No. ESPR-D-22-02034
Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process
Environmental Science and Pollution Research

Dear Dr Fikri,

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for
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Editor
Environmental Science and Pollution Research

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REMINDER LATE REVIEW – 13 JUNI 2022, 11:42

ESPR - Second Reminder of Late Review for Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process - [EMID:f033dbff8886a12a]

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Environmental Science and Pollution Research <em@editorialmanager.com>
Kepada: Elanda Fikri

Sen, 13 Jun 2022 jam 11.42 ☆

Ref.: Ms. No. ESPR-D-22-02034
Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process
Environmental Science and Pollution Research

Dear Dr Fikri,

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ESPR-D-22-02034
"Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process"
Original Submission

(Reviewer 4)

Reviewer Recommendation Term:	Response
Transfer Authorization	Reject
If this submission is transferred to another publication, do we have your consent to include your identifying information?	No
If this submission is transferred to another publication, do we have your consent to include your original review?	No

Custom Review Question(s):	Response
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Do you want to review the revised version of that manuscript	Yes

Comments to Author:
Title: Distillery industrial wastewater (DIW) treatment by the combination of sono(US),photo(UV) and electrocoagulation(EC) process

Review Comments
1. Abstract:
a. Organization is poor, it needs revision
b. Results mentioned in the Abstract create confusion to the reader
c. Need to mention specific results in a logical order
d. "The values found were much greater than those produced using UV, US, EC, UV+US, UV+EC, and US+EC methods." This statement doesn't have any evidence. Abstract should be standalone.
e. 100% colour removal was mentioned but it was not mentioned in the list of various influencing variables and its concentration.
f. pH is a vital influencing parameter in Electrocoagulation mechanism. It was not mentioned.
g. "inter-electrode distance with Fe/Fe electrode combination improved the COD removal efficiency", it is an incomplete statement.
2. Page No.3, Line No. 50 : Given citation as 2020 and 2016 but it was started from 2004. It is not a new method. Incorporate Int. J. Environ. Res., 6(3):711-718,2012;Indian Journal of Chemical Technology 14:240-245,2007; Chen. G. (2004). Electrochemical technologies in wastewater treatment. Sep. Purif. Technol., 38, 11-41
3. Page no. 4, Line No. 71-73 : There is not evidence having this statement. A reference mentioned was not able to find. Electrocoagulation is not a primary treatment method.
4. Organization of introduction needs logical order. Sentences are zigzag order due to this, connectivity of the sentences are missing in many places.
5. Page no.6, line no 121-124: It should be under the Methodology section
6. Page No.6, Line 117: What is DIW? Should write full form while using first time
7. Page No.7, Line No. 145: What is a same dimension?
8. Line No. 206: What is EES?
9. How did you get 0.75Adm⁻² with 0.75cm inter-electrode distance?
10. 0.75cm distance is optimal distance for US+UV+EC?
11. How did you calculate Current Density? It was not mentioned in Methodology?
12. Current density values and EEC values are not correlating each other?
13. Page no.9, line no 203: In this section treatment time was not mentioned anywhere?
14. Fig 2. Why COD was reduced after 4 hours? There is no explanation
15. Line no. 244: properly revise it based on the results.
16. Page no 10, line no. 224: refer to Journal of Environ.Science & Engg Vol 50, No.4, P. 283-288, October 2008
17. EEC increased from 7.01 to 8.99 kWh m⁻³, but COD removal efficiency declined from 95.63 to 91.60%. Why?
18. Very poor interpretation of results in Results & Discussion section?
19. Page No. 11, Line no. 247: What is the same amount?
20. How Fe(OH)₃ coagulant will influence Sedimentation?
21. Page no. 12, Line NO. 252 : Where is the evidence for this statement?
22. Page no. 12, Line No. 262. Remove this reference. It is not suitable reference. Give correct reference to this statement. This reference is not in the data base no don't give this reference
23. Page 12, Line No. 255 used W for UV and Line no 268 used W for US. It is correct? No one used W for US in any study. Check it and correct
24. Line no. 272 and 273 statements doesn't have connectivity
25. Some are lengthy sentences which are hard to understand the readers for example line 286.
26. Page No. 13, Line no 295 : as per the Journal guidelines should not mention self references in the article So remove it.
27. Treatment time not mentioned in sub-section 3.1.1.1 but mentioned 4hr in Sub-section 3.1.1.2.
28. Page No. 14, line No.311. Statement needs Evidence of reference
29. Page no 326: a substantial color removal of 62.55% and a COD reduction of 50.27% for EC were accomplished. At how much treatment time?
30. Page NO.334: This paragraph contradicting your previous results and the given reference is not correct evidence.
31. As per your graphs only EC has major influence to remove COD and Colour from DIW. US and UV are negligible impact. US+UV+EC has highest performance was observed by your research. If you use three methods, expenditure will increase. How it will be suggestible research?
32. Line no.: 360 to 365, 121 to 124 and 33 to 35. Repeatedly used
33. Conclusion and abstract are same. See the Author guidelines and write correctly
34. Fig 3. Why COD removal percentage decreased after 0.17 A dm⁻² current density? No explanation given in the results & discussion section
35. Fig 3. Why COD removal increasing drastically increased upto 0.17 A dm⁻²?

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Review Comments
1. Abstract:
a. Organization is poor, it needs revision
b. Results mentioned in the Abstract create confusion to the reader
c. Need to mention specific results in a logical order
d. "The values found were much greater than those produced using UV, US, EC, UV+US, UV+EC, and US+EC methods." This statement doesn't have any evidence. Abstract should be standalone.
e. 100% colour removal was mentioned but it was not mentioned in the list of various influencing variables and its concentration.
f. pH is a vital influencing parameter in Electrocoagulation mechanism. It was not mentioned.
g. "inter-electrode distance with Fe/Fe electrode combination improved the COD removal efficiency", it is an incomplete statement.
2. Page No.3, Line No. 50 : Given citation as 2020 and 2016 but it was started from 2004. It is not a new method. Incorporate Int. J. Environ. Res., 6(3):711-718,2012;Indian Journal of Chemical Technology 14:240-245,2007; Chen. G. (2004). Electrochemical technologies in wastewater treatment. Sep. Purif. Technol., 38, 11-41
3. Page no. 4, Line No. 71-73 : There is not evidence having this statement. A reference mentioned was not able to find. Electrocoagulation is not a primary treatment method.
4. Organization of introduction needs logical order. Sentences are zigzag order due to this, connectivity of the sentences are missing in many places.
5. Page no.6, line no 121-124: It should be under the Methodology section
6. Page No.6, Line 117: What is DIW? Should write full form while using first time
7. Page No.7, Line No. 145: What is a same dimension?
8. Line No. 206: What is EES?
9. How did you get 0.75Adm⁻² with 0.75cm inter-electrode distance?
10. 0.75cm distance is optimal distance for US+UV+EC?
11. How did you calculate Current Density? It was not mentioned in Methodology?
12. Current density values and EEC values are not correlating each other?
13. Page no.9, line no 203: In this section treatment time was not mentioned anywhere?
14. Fig 2. Why COD was reduced after 4 hours? There is no explanation
15. Line no. 244: properly revise it based on the results.
16. Page no 10, line no. 224: refer to Journal of Environ.Science & Engg Vol 50, No.4, P. 283-288, October 2008
17. EEC increased from 7.01 to 8.99 kWh m⁻³, but COD removal efficiency declined from 95.63 to 91.60%. Why?
18. Very poor interpretation of results in Results & Discussion section?
19. Page No. 11, Line no. 247: What is the same amount?
20. How Fe(OH)₃ coagulant will influence Sedimentation?
21. Page no. 12, Line NO. 252 : Where is the evidence for this statement?
22. Page no. 12, Line No. 262. Remove this reference. It is not suitable reference. Give correct reference to this statement. This reference is not in the data base no don't give this reference
23. Page 12, Line No. 255 used W for UV and Line no 268 used W for US. It is correct? No one used W for US in any study. Check it and correct
24. Line no. 272 and 273 statements doesn't have connectivity
25. Some are lengthy sentences which are hard to understand the readers for example line 286.
26. Page No. 13, Line no 295 : as per the Journal guidelines should not mention self references in the article So remove it.
27. Treatment time not mentioned in sub-section 3.1.1.1 but mentioned 4hr in Sub-section 3.1.1.2.
28. Page No. 14, line No.311. Statement needs Evidence of reference
29. Page no 326: a substantial color removal of 62.55% and a COD reduction of 50.27% for EC were accomplished. At how much treatment time?
30. Page NO.334: This paragraph contradicting your previous results and the given reference is not correct evidence.
31. As per your graphs only EC has major influence to remove COD and Colour from DIW. US and UV are negligible impact. US+UV+EC has highest performance was observed by your research. If you use three methods, expenditure will increase. How it will be suggestible research?
32. Line no.: 360 to 365, 121 to 124 and 33 to 35. Repeatedly used
33. Conclusion and abstract are same. See the Author guidelines and write correctly
34. Fig 3. Why COD removal percentage decreased after 0.17 A dm⁻² current density? No explanation given in the results & discussion section
35. Fig 3. Why COD removal increasing drastically increased upto 0.17 A dm⁻²?

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20. How Fe(OH)₃ coagulant will influence Sedimentation?

21. Page no. 12, Line No. 252 : Where is the evidence for this statement?

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35. Fig 3. Why COD removal increasing drastically increased upto 0.17 A dm⁻²

36. Fig 3. COD removal reached around 75% at EEC 7. COD removal reached 95% at EEC 9.5. only for 20% removal of COD used EEC 2.5? Why used high energy for just to remove last20% of COD?

37. Fig 3 showed only COD and EEC. There is no results regarding Colour removal, but mentioned in the text. How is it possible?

38. Fig 4 mentioned COD and COD removal percentage create confusion to the readers. Revise it as Initial COD and Final COD.

39. Fig 4 Energy consumption and COD removal performance has proportional relationship. So why did you use low Energy for high COD concentration removal? And why did you use High Energy for low concentrations?

40. Fig 5 indicated that you used 8, 12 & 32 watts lamps. It was not mentioned in the text anywhere.

41. Which watts performance was best as per the given results in the Fig 5?

42. Why did you consider 32 watts as optimized UV for COD removal?

43. 12 watts removed 85% and 32watts removed 95%. Only for 10% removal you are using 20 watts more? Is it cost-effective decision?

44. Fig 6 US Power units mentioned watts. Is it correct? Ultrasounds will be measured in Hz. Check it and correct

45. Fig 6 Why increased the COD removal increases with US Power?

46. Fig 6 As you mentioned in the text 100 is the optimized value? At 75 removals percentage of COD is 90% achieved. Only for 5% you are using additionally 25. Is it the correct way to set the optimization point?

47. Fig 7 Why Al/Al electrodes remove less COD?

48. Fig 7 Why did you select Fe/Fe is the best optimized electrode combination?

49. Fig 8 Why the EEC increased with increased distance between electrodes?

50. Fig 9 was not explained in the text

General comments

1. Organization of Introduction missing the logical order and language errors are present
2. EC process will influence by pH but in this research it was not considered but used pH 7 for all experiments. No Industrial waste will have neutral pH
3. Discussion regarding the results is very poor and poor citation in the results and discussion section
4. Conclusion is very poor because there is no discussion of results
5. Read the Author guidelines of the Journal carefully and revise it

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ESPR-D-22-02034
"Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process"
Original Submission

Elanda Fikri (Reviewer 5)

Reviewer Recommendation Term: Minor Revision

Transfer Authorization	Response
If this submission is transferred to another publication, do we have your consent to include your identifying information?	No
If this submission is transferred to another publication, do we have your consent to include your original review?	No

Custom Review Question(s):	Response
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Do you want to review the revised version of that manuscript	Yes

Comments to Editor:

1. Is this topic of general interest? Yes
2. Does this article contain new aspects? Yes
3. Does the presentation reflect the present state of knowledge? Yes
4. Are all relevant aspects of the topic presented fully? Yes
5. Is the literature sufficiently critical, current, and internationally evaluated? Yes

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2. Does this article contain new aspects? Yes
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4. Are all relevant aspects of the topic presented fully? Yes
5. Is the literature sufficiently critical, current, and internationally evaluated? Yes
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9. Does the abstract appropriately cover the contents of the article? Yes
10. Are the key words suitable so that the article can again be found in the current registers or indexes? Yes
11. Have the conclusions been justified sufficiently? Yes
12. Does the title appropriately reflect the contents of the paper? Yes


Comments to Author:

1. It is suggested that the abstract content should be simplified and the interesting and important results should be placed in the Conclusions section.
2. Add novelty to the abstract
3. Add originality in the background
4. add to the problems that exist in the use of electrocoagulation in other industries as a comparison
5. Add sampling technique in this research
6. The title is too long.
7. Highlights needs to added.
8. Except tables, data could be shown in figures.
9. References format should be consistent

Close

UCAPAN TERIMA KASIH DARI PIHAK JURNAL – 15 JUNI 2022, 08:13

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 **Angeles Blanco** <em@editorialmanager.com>
Kepada: Elanda Fikri 📧 Rab, 15 Jun 2022 jam 08.13 ☆

Ref.:
Ms. No. ESPR-D-22-02034
Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process
Environmental Science and Pollution Research

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Thank you for your review of this manuscript.

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Kind regards,

Professor Angeles Blanco
Editor
Environmental Science and Pollution Research

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 **Angeles Blanco** <em@editorialmanager.com>
Kepada: Elanda Fikri Rab, 6 Jul 2022 jam 17.31 ☆

CC: ablanco@quim.ucm.es, ablanco@ucm.es

Dear Dr Fikri,

Thank you very much for your evaluation of the manuscript Distillery industrial wastewater(DIW) treatment by the combination of sono(US), photo(UV) and electrocoagulation(EC) process for Environmental Science and Pollution Research.

Based on the reviewers' suggestions a decision about this paper has been reached: **Reject**.

The decision letter to the author can be read from within your Editorial Manager account by using the Reviewer Login.

Yours sincerely,
Professor Angeles Blanco
Editor
Environmental Science and Pollution Research


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Kepada: elandafikri@yahoo.com Jum, 15 Jul 2022 jam 13.43 ☆

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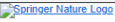
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