



iqbal syaichurrozi <iqbalsyaichurrozi@gmail.com>

Fwd: Decision on submission to Journal of Water Process Engineering

1 message

Sarto Sarto <sarto@ugm.ac.id>

Sun, Apr 2, 2023 at 9:48 PM

To: iqbal syaichurrozi <iqbalsyaichurrozi@gmail.com>

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From: **Journal of Water Process Engineering** <em@editorialmanager.com>

Date: Wed, Aug 24, 2022 at 3:11 AM

Subject: Decision on submission to Journal of Water Process Engineering

To: Sarto Sarto <sarto@ugm.ac.id>

Manuscript Number: JWPE-D-22-02094

Experiment and Kinetic Analysis of The Effect of Agitation Speed on Electrocoagulation Process for The Treatment of Vinasse

Dear Dr Sarto,

Thank you for submitting your manuscript to Journal of Water Process Engineering.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following major revision and modification. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by Sep 22, 2022.

When revising your manuscript, please consider all issues mentioned in the reviewers' comments carefully: please outline every change made in response to their comments and provide suitable rebuttals for any comments not addressed. Please note that your revised submission may need to be re-reviewed.

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Journal of Water Process Engineering values your contribution and I look forward to receiving your revised manuscript.

Kind regards,

Akeem Oladipo, PhD
Associate Editor
Journal of Water Process Engineering

Editor comments:

---In its current state, the level of English throughout your manuscript does not meet the journal's required standard. You may wish to ask a native speaker to check your manuscript for grammar, style and syntax, or use the professional language editing options available from Elsevier Author Services: <https://webshop.elsevier.com/>

---Something very important is that there is no real image of the electrocoagulation system, which is needed to visualize the process. So, supply the actual photo of your EC set-up and label each part.

Reviewer comments:

Reviewer #1: 1) Grammar and English should to be checked.

- 2) In order to get an idea of what is integrated in the EC system, a real system image is missing.
- 3) Reynolds number, the name must be corrected in the whole document.
- 4) Line 51, "The authors", who are the authors? The reference number is not enough to clearly identify to whom it refers.
- 5) Clarify this: From line 51 to line 60 they seem to refer to the same authors, but at least 4 different references are identified.
- 6) Line 214 to 231, The content of this section needs to be revised and rearranged, so that the experimental settings and how they were measured can be more clearly understood.
- 7) The authors should improve the conclusions so they are consistent with the three objectives mentioned in the introduction.
- 8) Do you take into consideration that stirring can be a factor that can influence the oxidation rate and the subsequent degradation of organic matter?
- 9) All the reported values are the average of how many measurements? What was your process control? Without agitation?

Line 76 with the mechanistic model developed.

Line 200 (dm.s), respectively.

Line 206 0.03 dm, respectively. Same at Line 209-210, also at Line 233-234; Line 268-269. Line 282.

Line 218 mercury thermometer

Table 3, the last equation has an empty square.

Reviewer #2: Title: Experiment and Kinetic Analysis of The Effect of Agitation Speed on Electrocoagulation Process for The Treatment of Vinasse

Ms: JWPE-D-22-02094

Authors should consider the following:

1. Highlights: Several of the highlight points are unclear, it's hard to understand what each bullet point means because they are not written in complete sentences. Will be good to re-write all and ensure abbreviation is avoided or predefined.
2. Keywords: the words should not repeat words in the manuscript title.
3. In the Nomenclatures: You have liquid mass; how do you measure that? why not volume of the liquid and which liquid are your refereeing to? Also, where you have written molar or COD and molar of others should be changed to concentration.
4. Introduction (line 35-37): You should also include AC since DC is not the only source of power for EC.
5. Line 40: You said the Fe is oxidized to Fe²⁺? why not to Fe³⁺? So is technically wrong to conclude its just Fe²⁺. Hence, that part should be "oxidized to either Fe²⁺ or Fe³⁺".
6. The language of the manuscript requires significant improvement.
7. The introduction should include the following recent paper: Chemosphere 300, 134532 (2022).
8. The claims in Line 45-46 are WRONG. "Concentration of pollutants (can be expressed as the Chemical Oxygen Demand (COD))".....How is pollutant concentration expressed as COD? COD is totally different from pollutant concentration and cannot be expressed as COD.
9. Table 1 is not clear. "No and Yes" "Target of this study"..... what does it mean "NO/YES" and last column means what? Please below the table as a footnote; briefly discussed and clarify.
10. In Eq.1, why Fe²⁺ and not Fe³⁺? Justify.
11. Line 95: "polymerization bond length" meaning? why polymerization? provide further justification to this and support your assumptions with references.
12. Eqs. 1--5 is already written, no need for table 2. The name of the mechanism can be written in front of each equation.
13. Line 105: Should be re-written as "The mechanistic model is built based on the chemical process given in Eqs.1-5."
14. Line 185: "Energy loss due to the around".....what do you mean by "around"?
15. In all cases within the manuscript, change " hours" to "h" or minutes to "min".

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Reviewers' comments	Authors' responses
Reviewer #1	
Grammar and English should to be checked.	Thank you. We have checked and revised the errors in grammar. Please check our revisions (yellow highlights) on the revised article.
In order to get an idea of what is integrated in the EC system, a real system image is missing.	Thank you. We have added the Figure 1. Please check the Figure 1 on the page 30.
Reynolds number, the name must be corrected in the whole document.	Thank you. We have revised it in the whole document. Please check: Line 15, Line 29, Line 244
Line 51, "The authors", who are the authors? The reference number is not enough to clearly identify to whom it refers.	Thank you. We have revised "the authors" to "Syaichurrozi et al.". Please check Line 55.
Clarify this: From line 51 to line 60 they seem to refer to the same authors, but at least 4 different references are identified.	<p>Thank you. Yes, there are 4 different references with the same authors' name.</p> <p>Please check Line 55 to Line 62.</p> <p>"Syaichurrozi et al. [12] built a simple mechanistic model involving the changes in COD mass, sludge mass, and scum mass. Furthermore, a more detailed mechanistic model was built by Syaichurrozi et al. [13] by considering the changes in COD concentration, Fe concentration, sludge mass, and scum mass, but the liquid volume was assumed to be constant. Furthermore, Syaichurrozi et al. [14] modified the mechanistic model by considering the change in liquid volume, and then Syaichurrozi et al. [15] improved the mechanistic model by considering not only the change in liquid volume but also the changes in liquid pH and temperature"</p> <p>In references:</p> <p>[12] I. Syaichurrozi, S. Sarto, W.B. Sediawan, M. Hidayat, Effect of Current and Initial pH on Electrocoagulation in Treating the Distillery Spent Wash with Very High Pollutant Content, Water 2021, Vol. 13, Page 11. 13 (2020) 11. https://doi.org/10.3390/W13010011.</p> <p>[13] I. Syaichurrozi, S. Sarto, W.B. Sediawan, M. Hidayat, Mechanistic model of electrocoagulation process for</p>

	<p>treating vinasse waste: Effect of initial pH, J. Environ. Chem. Eng. 8 (2020) 103756. https://doi.org/10.1016/J.JECE.2020.103756.</p> <p>[14] I. Syaichurrozi, S. Sarto, W.B. Sediawan, M. Hidayat, Mechanistic models of electrocoagulation kinetics of pollutant removal in vinasse waste: Effect of voltage, J. Water Process Eng. 36 (2020) 101312. https://doi.org/10.1016/J.JWPE.2020.101312.</p> <p>[15] I. Syaichurrozi, S. Sarto, W.B. Sediawan, M. Hidayat, The New Mechanistic Model to Illustrate the Complex Phenomena in Electrocoagulation Process of Vinasse, Polish J. Environ. Stud. 30 (2021) 3249–3259. https://doi.org/10.15244/PJOES/130906.</p>
<p>Line 214 to 231, The content of this section needs to be revised and rearranged, so that the experimental settings and how they were measured can be more clearly understood.</p>	<p>Thank you. We have revised the section of 4.3. Please check Line 224-247.</p>
<p>The authors should improve the conclusions so they are consistent with the three objectives mentioned in the introduction.</p>	<p>Thank you. We have revised the conclusion. Please check Line 445-457.</p>
<p>Do you take into consideration that stirring can be a factor that can influence the oxidation rate and the subsequent degradation of organic matter?</p>	<p>Thank you. Yes, but in the oxidation rate at anode is just caused by the electrical current and electrolysis time. If the liquid contains very high chloride concentration, the oxidation of organic compound occurs due to the presence of the hypochlorous acid (HOCl). However, the vinasse used in this study contains very low chloride concentration. Therefore, the oxidation of organic compound does not occur in this study.</p> <p>Please check our explanation in Line 290-299. “A previous study reported that electrooxidation of organic pollutants in wastewater occurs when the wastewater contains a high chloride concentration (about 40 g/L) [28]. The oxidation process occurs because chloride (Cl⁻) in liquid turns into chlorine (Cl₂) at the anode. Furthermore, the Cl₂ reacts with</p>

	<p>H₂O to form hypochlorous acid (HOCl) and hypochlorite ion (OCl⁻). Under acidic conditions, the concentration of hypochlorous acid is more dominant than the hypochlorite ion. Furthermore, the hypochlorous acid has a stronger oxidizing power than the hypochlorite ion, so organic pollutants are easily oxidized at acidic pH. However, this study used the local vinasse with a very low chloride concentration (about 1.1 g/L) [12]. Therefore, the decrease in COD concentration in this study was caused by the adsorption by the coagulant, not by the oxidation by hypochlorous acid.”</p>
<p>All the reported values are the average of how many measurements? What was your process control? Without agitation?</p>	<p>Thank you. We have added information about those in Line 241-242. “The experiments in this study were conducted without replication. The process control was EC process without agitation (agitation speed 0 rpm).”</p>
<p>Line 76 with the mechanistic model developed.</p>	<p>Thank you. We have revised the words. Please check Line 82-83.</p>
<p>Line 200 (dm.s), respectively.</p>	<p>Thank you. We have revised the words. Please check Line 209.</p>
<p>Line 206 0.03 dm, respectively. Same at Line 209-210, also at Line 233-234; Line 268-269. Line 282.</p>	<p>Thank you. We have revised the words. Please check Line 215, Line 219, Line 249, Line 286, Line 304.</p>
<p>Line 218 mercury thermometer</p>	<p>Thank you. We have revised the words. Please check Line 226.</p>
<p>Table 3, the last equation has an empty square.</p>	<p>Thank you. We have revised the equation. Please check Table 2.</p> $k_{ht} \frac{VI}{v} - k_c(T - T_o)$
<p>Reviewer #2</p>	
<p>Highlights: Several of the highlight points are unclear, it's hard to understand what each bullet point means because they are not written in complete sentences. Will be good to re-write all and</p>	<p>Thank you. We have revised the highlights.</p>

ensure abbreviation is avoided or predefined.	
Keywords: the words should not repeat words in the manuscript title.	Thank you. We have modified the keywords. Please check Line 29-30. “Agitation speed; Electrocoagulation; Mechanistic model; Reynolds number; Vinasse”
In the Nomenclatures: You have liquid mass; how do you measure that? why not volume of the liquid and which liquid are your refereeing to? Also, where you have written molar or COD and molar of others should be changed to concentration.	Thank you. We have measured the liquid volume (shown in Table 3). The liquid mass does not appear in the final equation. We have just showed the liquid mass in “step by step” in building the final equation. Please check Line 188-203. Because the liquid mass is shown in the “step by step”, we have to added the symbol definition of the liquid mass. The liquid volume refers to the vinasse volume. For simplification, the density and viscosity of vinasse is assumed to be constant during EC process. Please check Line 245-246. This study has built the mechanistic model with chemical reaction approximation (Line 86-87). Thus, the chemical reactions use the basis of mol. Because the experimental data was in unit of gram, the mechanistic model has to be modified to change from the basis of mol the basis of concentration. Please check Line 117-125 Line 127-131 Line 133-145
Introduction (line 35-37): You should also include AC since DC is not the only source of power for EC.	Thank you. We have revised the sentence. Please check Line 37-38.
Line 40: You said the Fe is oxidized to Fe ²⁺ ? why not to Fe ³⁺ ? So is technically wrong to conclude its just Fe ²⁺ . Hence, that part should be "oxidized to either Fe ²⁺ or Fe ³⁺ ".	Thank you. We have revised the sentence. Please check Line 42-45.
The language of the manuscript requires significant improvement.	Thank you. We have checked and revised the errors in grammar. Please check our revisions (yellow highlights) on the revised article.

<p>The introduction should include the following recent paper: Chemosphere 300, 134532 (2022).</p>	<p>Thank you. We have added the reference. Please check Line 35-36. “Electrocoagulation (EC), which is one of the wastewater treatments, can be applied to treat various wastewater [1–6].”</p> <p>In references: [6] A.A. Oladipo, F.S. Mustafa, O.N. Ezugwu, M. Gazi, Efficient removal of antibiotic in single and binary mixture of nickel by electrocoagulation process: Hydrogen generation and cost analysis, Chemosphere. 300 (2022) 134532. https://doi.org/10.1016/J.CHEMOSPHERE.2022.134532.</p>
<p>The claims in Line 45-46 are WRONG. "Concentration of pollutants (can be expressed as the Chemical Oxygen Demand (COD)) ".....How is pollutant concentration expressed as COD? COD is totally different from pollutant concentration and cannot be expressed as COD.</p>	<p>Thank you. We have revised the sentences. Please check Line 48-51. “Based on the information above, the EC can change the concentration of pollutants and electrode-metal ions in wastewater and produce sludge and scum [3–5]. Commonly, the concentration of organic pollutants in wastewater is measured as the concentration of Chemical Oxygen Demand (COD) [11].”</p>
<p>Table 1 is not clear. " No and Yes" "Target of this study"..... what does it mean "NO/YES" and last column means what? Please below the table as a footnote; briefly discussed and clarify.</p>	<p>Thank you. We have added information below the Table 1. Please check Page 26.</p>
<p>In Eq.1, why Fe²⁺ and not Fe³⁺? Justify.</p>	<p>Thank you. We have added information about it. Please check Line 89-90. “Many studies [13,14,20,21] proved that the product of the oxidation reaction at the iron anode is Fe²⁺ ion, not Fe³⁺ ion.”</p>
<p>Line 95: "polymerization bond length" meaning? why polymerization? provide further justification to this</p>	<p>Thank you. We have revised the sentence. Please check Line 104-105.</p>

and support your assumptions with references.	“It is assumed that k_a is a second-order reaction rate constant that is not affected by the total mol of Fe(OH) ₂ and COD in the reaction shown in Eq. 4a”
Eqs. 1--5 is already written, no need for table 2. The name of the mechanism can be written in front of each equation.	Thank you. We have deleted the Table 2.
Line 105: Should be re-written as "The mechanistic model is built based on the chemical process given in Eqs.1-5."	Thank you. We have revised the sentence. Please check Line 114. “The mechanistic model is built based on the chemical process given in Eqs. 1-5.”
Line 185: "Energy loss due to the around".....what do you mean by "around"?	Thank you. We have revised the sentence. Please check Line 194. “The energy loss to the surroundings...”
In all cases within the manuscript, change " hours" to "h" or minutes to "min".	Thank you. We have checked and confirmed that the “hours” changes to “h” and the “minute” changes to “min” Line 28, 225, 226, 229, 231, 235, 236, 254, 303, 309, 446,

Date: Sep 08, 2022
To: "Sarto Sarto" sarto@ugm.ac.id
From: "Journal of Water Process Engineering" support@elsevier.com
Subject: Decision on submission to Journal of Water Process Engineering

Manuscript Number: JWPE-D-22-02094R1

Experiment and Kinetic Analysis of The Effect of Agitation Speed on Electrocoagulation Process for The Treatment of Vinasse

Dear Dr Sarto,

Thank you for submitting your manuscript to Journal of Water Process Engineering.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate and value your contribution to Journal of Water Process Engineering. We regularly invite authors of recently published articles to participate in the peer review process. You are now part of the Journal of Water Process Engineering reviewer pool. We look forward to your continued participation in our journal, and we hope you will consider us again for future submissions.

Kind regards,
Akeem Oladipo, PhD
Associate Editor

Journal of Water Process Engineering

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Reviewer #2: Now suitable for publication in my opinion.

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iqbal syaichurrozi <iqbalsyaichurrozi@gmail.com>

Fwd: JWPE 103144: Revised proof for approval

2 messages

Sarto Sarto <sarto@ugm.ac.id>
To: iqbal syaichurrozi <iqbalsyaichurrozi@gmail.com>

Sun, Apr 2, 2023 at 9:32 PM

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Cc: <n.antonyjc@elsevier.com>

Our reference: 103144

Article title: Experiment and kinetic analysis of the effect of agitation speed on electrocoagulation process for the treatment of vinasse

To be published in: JWPE

Dear Dr Sarto,

Please find attached the revised proof of your article 103144 in Journal of Water Process Engineering for your approval.

I would be grateful if you could check the proof and let me know if you have any comments or if you are happy to proceed with publication in its current form.

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Thank you in advance for your cooperation.

PS: Please [reply all] in your response.

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Nathaniel Antony J C

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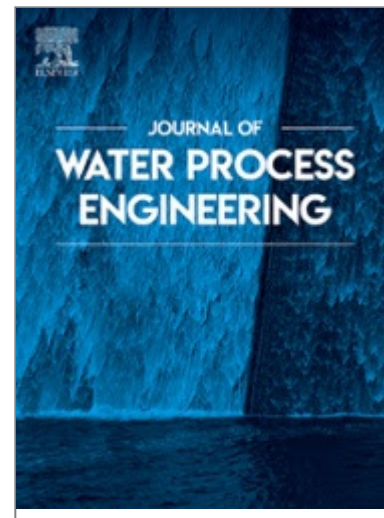
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Dear Dr Sarto,

We are pleased to let you know that the final version of your article *Experiment and kinetic analysis of the effect of agitation speed on electrocoagulation process for the treatment of vinasse* is now available online, containing full bibliographic details.

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