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Wed, Oct 30,
2019, 6:41 AM

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Journal of Environmental Chemical Engineering
Title: Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH
Authors: iqbal syaichurrozi; Sarto Sarto; Wahyudi Budi Sediawan; Muslikhin Hidayat

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Journal of Environmental Chemical Engineering

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Wed, Oct 30,
2019, 6:51 AM

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Submission Confirmation

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Title: Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH

Journal of Environmental Chemical Engineering
Research Paper

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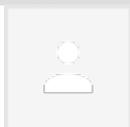
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Editor handles JECE-D-19-02134

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Wed, Oct 30,
2019, 2:20 PM

to me

Ms. Ref. No.: JECE-D-19-02134

Title: Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH

Journal of Environmental Chemical Engineering

Dear Dr. Sarto Sarto,

Your submission "Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH" will be handled by Editor Guilherme Luiz Dotto, Ph.D.

You may check the progress of your paper by logging into the Elsevier Editorial System as an author at <https://ees.elsevier.com/jece/>.

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JECE-D-19-02134: Decision

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Fri, Nov 1, 2019,
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Manuscript No.: JECE-D-19-02134

Title: Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH

Article Type: Research Paper

Corresponding Author: Dr. Sarto Sarto

All Authors: iqbal syaichurrozi; Sarto Sarto; Wahyudi Budi Sediawan; Muslikhin Hidayat

Submit Date: Oct 29, 2019

Dear Dr. Sarto,

Thank you for submitting the above-mentioned article to Journal of Environmental Chemical Engineering.

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We once again thank you for your contribution to Journal of Environmental Chemical Engineering and look forward to publishing your work.

Yours sincerely,

Guilherme Luiz Dotto, Ph.D

Editor

Journal of Environmental Chemical Engineering

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Comments from Editor:

Dear author

The layout of your manuscript is not good at all for submission of a manuscript to a Scientific Journal. Unfortunately, I have no conditions to send your manuscript to review in this layout. I am giving the opportunity to resend this manuscript entirely formatted to a Scientific Journal. Perform the following corrections:

- 1-English should be improved.
- 2- All manuscript should be double spaced and written in times new roman font.
- 3-All figures with experimental points should contains error bars
- 4- Tables should contains standard deviations
- 5- Remove "x" or "*" from the equations, since it denotes a vector product.
- 6- The units should be $x y^{-1}$ and not x/y .

With kind regards

Prof. Dr. Guilherme Luiz Dotto

Korespondensi dengan Reviewer JECE

Reviewer #1: Manuscript discusses the effect of pH on electrocoagulation process.

a) author can add graphical abstract.

Response: Thank you. We have added a graphical abstract.

b) author discusses the importance of COD removal. In other words, low organic load rate. I recommend author mention NAS sludge and NAS/Algae consortia as a method for wastewater treatment based on below studies: "Effect of nitrifiers community on fouling mitigation and nitrification efficiency in a membrane bioreactor"
"Interaction between *Chlorella vulgaris* and nitrifying-enriched activated sludge in the treatment of wastewater with low C/N ratio"

Response : Thank you. We have added the methods in Introduction section, page of 4-5.

c) the manuscript discusses the effect of pH on the performance, What about the effect of alkalinity on the results? Please explain.

Response: Thank you. We have added the explanations about the effect of alkalinity in section of 5.3, page of 18.

d) why is the experiment limited to acidic conditions? Please discuss it.

Response: Thank you. We have added the explanations about that in Introduction, page of 7-8.

e) Please check that all parameters are defined in the manuscript.

Response: Thank you. We have checked them.

Reviewer #2: The utilization of electrocoagulation (EC) process for treatment of wastewater was investigated in this work. The effect of initial pH on the COD removal was examined and modeled in details. The results demonstrated that the reactions in EC process consisted of adsorption, flocculation, entrapment, sedimentation and flotation. Ratio between removed COD to total operating cost for initial pH of 4.35, 5.00, 6.00 after EC process for 60 min was 0.0570, 0.0638, 0.0815 g-COD IDR-1, respectively. This work is well conducted and organized. The results could be well support the results and this topic is suitable for the subject of the Journal. I therefore the acceptance the manuscript after the following issues could be well addressed. My detailed comments are listed below.

1. The authors reported the treatment of vinasse Waste using the EC process. Why the authors choose the EC process, the authors should also compare this method with other environmental treatment methods, such as adsorption and catalytical degradation etc. Some backgrounds about the other treatment methods should be mentioned and discussed in the revised manuscript.

Response: Thank you. We have added explanations about the other methods in Introduction, page of 4-6.

2. The mussel-inspired chemistry has been wide utilized for the fabrication of functional composites for environmental treatment and other applications, the authors should mentioned some related contexts about the adsorption and catalytical degradation applications of polydopamine based composites. Some related reviews and reports (Chemical reviews 114 (9), 5057-5115, Journal of the Taiwan Institute of Chemical Engineers 86, 174-184, Journal of the Taiwan Institute of Chemical Engineers 82, 92-101, Journal of the Taiwan Institute of Chemical Engineers 82, 205-213, Journal of the Taiwan Institute of Chemical Engineers 68, 446-454, Ceramics International 44 (15), 18571-18577,) should be mentioned and cited in the revised manuscript.

Response: Thank you. We have added explanations about the literatures in Introduction, page of 5-6.

3. The authors should carefully check the format of references. Some errors are existed in this part.

Response: Thank you. We have checked them in References section.

4. Some recent reports from the Journal of Environmental Chemical Engineering should be cited to balance the references.

Response: Thank you. We have added new six literatures from Journal of Environmental Chemical Engineering. Hence, now, total references (literatures) from the journal are nine which are [33], [34], [35], [36], [38], [40], [41], [45], [49]

Reviewer #3: The effective removal of the pollutants from wastewater has attracted great research attention over the past few decades. A number of techniques have been reported for this aim. In this work, the authors reported the utilization of electrocoagulation process for treatment of the vinasse waste. The effect of initial pH on the COD removal was investigated and the obtained data were modeled. This work is some interest and suitable for the scope of the Journal. It should be of broad audience and could be accepted after the following issues could be addressed comprehensively.

1. It is well known that the many techniques have been reported for the treatment of wastewater. Among them, the adsorption and catalytical degradation and coagulation have attracted great attention. In this work, the authors focused on the initial pH values on the COD removal of vinasse waste, some other treatment methods should also be mentioned in the revised manuscript as the background.

Response: Thank you. We have added explanations about the other methods in Introduction, page of 4-6.

2. The adsorption should be an important and effective method for wastewater treatment. Some contexts about the adsorption removal pollutants should also be mentioned in the revised manuscript. The recent related references (e.g., Applied Materials Today 7, 222-238, Applied Surface Science, 459, 588-595, Applied Surface Science 427, 535-544, Applied Surface Science 343, 19-27, Applied Surface Science 419, 35-44, Journal of Colloid and Interface Science 499, 170-179, Journal of Molecular Liquids 2018, 271, 246-253, Ceramics International, 2019, 45(14), 17653-17661) should also be mentioned and cited in the revised manuscript.

Response: Thank you. We have added explanations about the literatures in Introduction, page of 5-6.

3. The effect of pH on the electrocoagulation process has been demonstrated in this work, however, the mechanism of pH on the removal COD should be discussed more clear in the revised manuscript.

Response: Thank you. We have added explanations about the mechanism of pH during EC on the COD removal efficiency in section 5.3, page 17.

4. The authors should modified the figures. For example, the images in figure 7 and figure 8 should be labeled with a, b, c... etc.

Response: Thank you. We have added revised them. Please check them in Figure 8 (page 45) and 9 (page 46).

5. The authors should balance the references. Some recent references about the wastewater treatment from the Journal of Environmental Chemical Engineering should be cited in the revised manuscript.

Response: Thank you. We have added new six literatures from Journal of Environmental Chemical Engineering. Hence, now, total references (literatures) from the journal are nine which are [33], [34], [35], [36], [38], [40], [41], [45], [49].

Korespondensi dengan Editor ke 1

1-English should be improved.

Response:

Thank you. We have improved the english on the manuscript. Please see the revisions on the manuscript

2- All manuscript should be double spaced and written in times new roman font.

Response:

Thank you. Yes, we have revised that.

3-All figures with experimental points should contains error bars

Response:

Thank you. Yes, we have conducted replication. Please see the revisions on the manuscript

4- Tables should contains standard deviations

Response:

Thank you. Yes, we have conducted replication. Please see the revisions on the manuscript

5- Remove "x" or "*" from the equations, since it denotes a vector product.

Response:

Thank you. Yes, we have revised that. Please see the revisions on the manuscript

6- The units should be $x y^{-1}$ and not x/y

Response:

Thank you. Yes, we have revised that. Please see the revisions on the manuscript

Korespondensi dengan Editor ke 2

Comments from Editor:

1-Remove the yellow brands

Response:

Thank you. We have removed the yellow brands.



iqbal syaichurrozi <iqbalsyaichurrozi@gmail.com>

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1 message

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Our reference: JECE 103756

Article reference: JECE_JECE-D-19-02134

Article title: Mechanistic Model of Electrocoagulation Process for Treating Vinasse Waste: Effect of Initial pH

To be published in: Journal of Environmental Chemical Engineering

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