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Aloha International Journal of Health Advancement (AIJHA)

Publisher: Alliance of Health Activists (Aloha)

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#322 Summary

SUMMARY REVIEW EDITING

Submission

Authors	Hery Koesmantoro, Karno Karno, Sunaryo Sunaryo
Title	Micro Nutrients (Fe, Mn, Zn, and pH) Effluent Digester Biogas Raw Material Water Hyacinth (Eichornia crassipes) as Raw Material for Organic Fertilizer
Original file	322-692-1-SM.DOCX, 2021-08-22
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Submitter	Hery Koesmantoro
Date submitted	August 22, 2021 - 10:54 AM
Section	Research
Editor	Sahrir Sililehu
Author comments	Dear Editorial Board Please help publish my article in the nearest volume (September 2021) because I will use it for the output of my research results. thank you very much
Abstract Views	44

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Submission Metadata

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Competing interests	—
CI POLICY	—
Bio Statement	e-mail: koesmantoroh@gmail.com (corresponding author)

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CI POLICY	—
Bio Statement	—

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Title and Abstract

Title
Micro Nutrients (Fe, Mn, Zn, and pH) Effluent Digester Biogas Raw Material Water Hyacinth (Eichhornia crassipes) as Raw Material for Organic Fertilizer

Abstract
Introduction: Water hyacinth (Eichhornia crassipes) which has the ability to grow very fast has turned into wild aquatic plants and causes losses, among others, accelerates silting of waters, reduces fish production due to taking up space and nutrients that are also needed by fish, complicating irrigation channels, blocking boat traffic and causes greater evaporation of water than in open water. The research objectives were: To utilize the effluent digester of biogas as raw material for water hyacinth (Eichhornia crassipes) as a liquid organic fertilizer by analyzing macro and micro nutrients. Methods: The study design was one group post test design. The research was conducted by taking samples in Bering Reservoir (PT Jasa Tirta) Pajar Village, Saradan District, Madiun Regency, East Java. The research was carried out in the Laboratory of D-III Environmental Health Magetan Poltekkes of the Ministry of Health, Surabaya and the Laboratory of Soil Science, Faculty of Agriculture, Sebelas Maret University, Surakarta. The research was carried out with treatment for: 7 days, 14 days and 21 days by measuring Micro nutrient elements, set and the pH at the end of the observation. Treatment activities and variations in research dosages were as follows: The number of research samples was: 6 samples with research parameters for micro nutrients: Fe, Mn, Zn and pH. The sampling technique was simple random sampling. Tools used: A set of fermentation tools in the form of a bucket with a lid equipped with a wooden stirrer, measuring cup and scale. The research materials include: biogas effluent digester (raw material for fertilizer), fermentation bacteria / fermenter (EM-4), molasses and water. Data were collected by conducting laboratory examinations of samples sent and examined with micro nutrient parameters according to variations in observation time. Data analysis was carried out by comparing the requirements for organic fertilizers. Minimum Technical Requirements for Organic Fertilizer, Biofertilizer and Soil Improvement. All micro nutrient parameters (Fe, Mn, Zn and pH) are in accordance with the required standards for fertilizers. Results: Micro nutrients (Fe): 192 ppm, without treatment as a control decreased to: 66.86 ppm, Mn nutrients, without treatment: 119.46 ppm, Zn analysis results, without treatment: 9.92 ppm, pH parameters have met the requirements, namely between 4-9 while the results of laboratory tests are in the range of 6.96 - 7.93. The results of the research on the treatment with the addition of EM-4 & Molasses with fermentation time of 7, 14 and 21 days, there was a decrease in the quality of micro nutrients, not according to the quality standards of liquid fertilizers. Conclusion: The conclusion of the results of this study is that the micro nutrient content before treatment (Fe, Mn, Zn) and pH, it turns out that some have met the requirements according to the Ministry of Agriculture, except that Zn nutrients are still below the standard. Micro nutrient content after

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#322 Review

SUMMARY REVIEW EDITING

Submission

Authors: Hery Koesmantoro, Karno Karno, Sunaryo Sunaryo

Title: Micro Nutrients (Fe, Mn, Zn, and pH) Effluent Digester Biogas Raw Material Water Hyacinth (Eichhornia crassipes) as Raw Material for Organic Fertilizer

Section: Research

Editor: Sahrir Siliehu

Peer Review

Round 1

Review Version	322-693-1-RV.DOCX	2021-08-22
Initiated	2021-09-04	
Last modified	2021-09-04	
Uploaded file	None	

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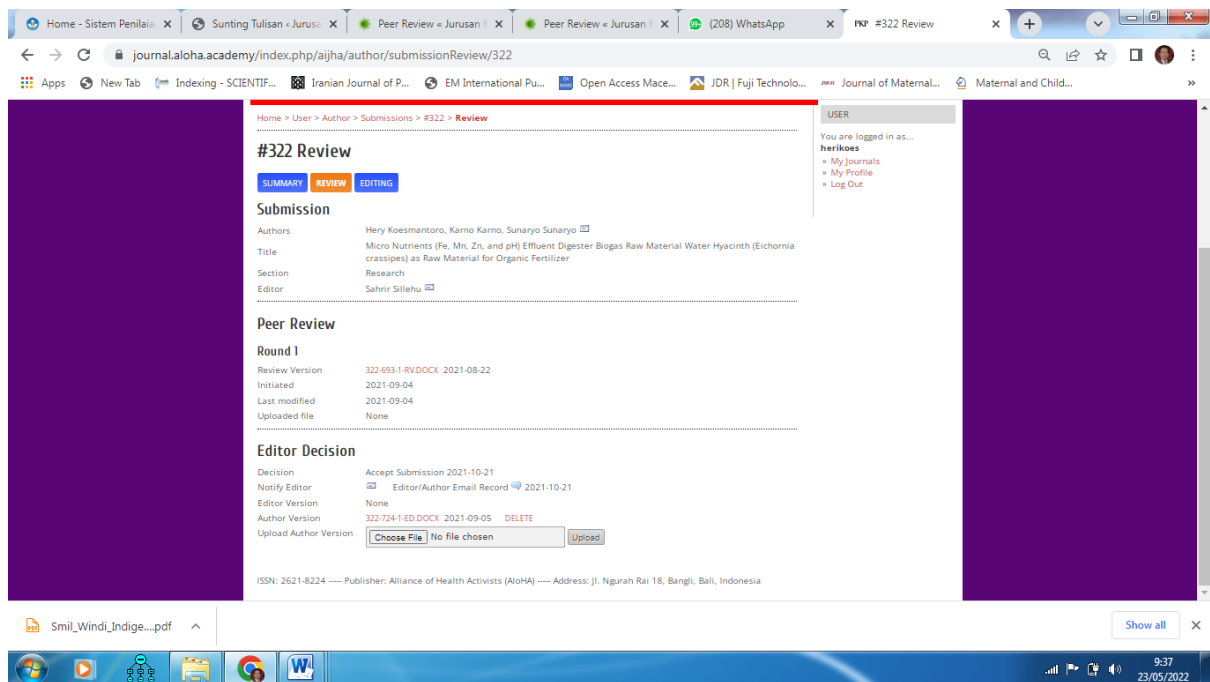
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2021-09-04 10:59
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Subject: [AIJHA] Editor Decision
Hery Koesmantoro:

We have reached a decision regarding your submission to Aloha International Journal of Health Advancement (AIJHA), "Micro Nutrients (Fe, Mn, Zn, and pH) Effluent Digester Biogas Raw Material Water Hyacinth (Eichornia crassipes) As Raw Material for Organic Fertilizer".

Our decision is: Revisions Required

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Sahrir Sillehu
Institute of Health Science "Maluku Husada"
sahrirmsmh@gmail.com

Reviewer A:

In general, this manuscript is good both in terms of content and methods used. Writers are also good at writing citations and references. But there is a slight problem, namely there is an error in writing references using the Vancouver Style.

Recommendation:

Minor revisions are required, especially the writing of the Vancouver gara in the bibliography
Font size must be considered
Please double check the compatibility between all citations and references

Thank you

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Section Editor
2021-10-21 08:48
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Subject: [AIJHA] Editor Decision
Hery Koesmantoro:

We have reached a decision regarding your submission to Aloha International Journal of Health Advancement (AIJHA), "Micro Nutrients (Fe, Mn, Zn, and pH) Effluent Digester Biogas Raw Material Water Hyacinth (*Eichornia crassipes*) As Raw Material for Organic Fertilizer".

Our decision is to: Accept Submission

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Sahrir Sillehu
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