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From: Philippe Garrigues (em@editorialmanager.com)

To: adhi_kusumastuti@mail.unnes.ac.id

Date: Thursday, 1 December 2022 at 08:43 am GMT+7

Ref.:

Ms. No. ESPR-D-22-00565R1

Reuse of Waste Cooking Oil (WCO) as Diluent in Green Emulsion Liquid Membrane (GELM) for Zinc Extraction
Environmental Science and Pollution Research

Dear Dr Kusumastuti,

Thank you for your review of this manuscript.

You can access your review comments and the decision letter (when available) by logging onto the Editorial Manager site at:

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Your username is: adhi_kusumastuti

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Kind regards,

Dr. Philippe Garrigues

Managing Editor

Environmental Science and Pollution Research

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ESPR-D-22-00565

"Reuse of Waste Cooking Oil (WCO) as Diluent in Green Emulsion Liquid Membrane (GELM) for Zinc Extraction"
Original Submission

Adhi Kusumastuti (Reviewer 1)

Reviewer Recommendation Term:		Major 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		
6. Is the size of the article appropriate to the contents? Yes		
7. Is the text presented in a manner that scientists in other disciplines will understand?		
8. Is the text presented and arranged clearly and concisely?		
9. Does the abstract appropriately cover the contents of the article?		
10. Are the key words suitable so that the article can again be found in the current registers or indexes?		
11. Have the conclusions been justified sufficiently?		
12. Does the title appropriately reflect the contents of the paper?		

Comments to Author:

Authors reported the application of WCO as liquid membrane component in the removal of heavy metals. However, some problems need to be clarified:

What does the implication of each interaction between the components in the W/O emulsion as shown by FTIR analysis?

Previous studies could reach efficiency of almost 100%. This study achieved only about 80%, please explain

Figure 7 & Figure 11 should use y axis from 0-100, to objectively describe the findings. Determination of chemical concentration is very important, with regard to operational cost and environmental issue

Line 457 - The sharp fall of the efficiency at 1.5 M might be due to the reaction between Span 80 with the acidic internal phase, resulting in the loss of surfactant properties and emulsion breakdown --- Is there any proof of emulsion breakdown?

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"Reuse of Waste Cooking Oil (WCO) as Diluent in Green Emulsion Liquid Membrane (GELM) for Zinc Extraction"

Revision 1

Adhi Kusumastuti (Reviewer 1)

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?	Yes	
If this submission is transferred to another publication, do we have your consent to include your original review?	Yes	
Custom Review Question(s):	Response	
Do you want to review the revised version of that manuscript	Yes	
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11. Have the conclusions been justified sufficiently?

12. Does the title appropriately reflect the contents of the paper?

Comments to Author:

Figure 7 shows that at 5, 10, and 15 minutes, no significant differences were showed by all stirring speeds

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